# AMERICAN

# RAILROAD JOURNAL.

STEAM NAVIGATION, COMMERCE, MINING, MANUFACTURES.

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HENRY V. POOR, Editor.

SATURDAY, OCTOBER 16, 1858.

Second Quarto Series, Vol. XIV., No. 42 .-- Whole No. 1,174, Vol. XXXI.

ESTABLISHED IN 1831.

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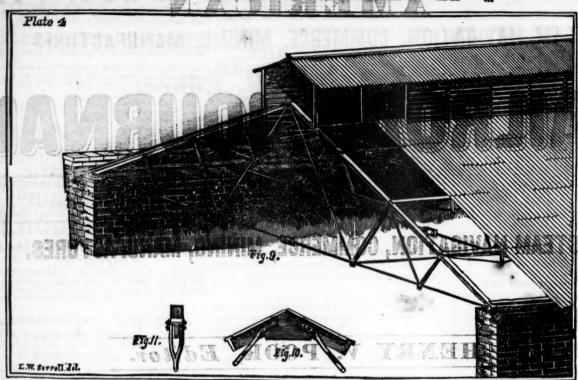
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MARSHALL LEFFERTS & BROTHER, No. 57 Beekman st., NEW YORK.

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### HENRY V. POOR, Editor.

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MESSES. ALGAR & STREET, No. 11 Clements Lane, Lombard Street, London, are the authorised European Agents

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### American Railroad Journal.

PUBLISHED BY J. H. SCHULTZ & CO. No. 9 SPRUCE ST.

New York, Saturday, October 16, 1858.

#### British Provinces in America, and their Railroads.

(Editorial Correspondence of the R. R. JOURNAL.) London, September 22nd, 1858.

Several matters of late have caused their North American Colonies to be regarded with more than ordinary interest by the British public. Among these may be named the closing of the Hudson Bay Company, the gold discoveries on Fraser's River, and the political condition of the Provinces which seem to point to some movement having for its object their confederation. Growing out of these questions is a great railway scheme, which is no less than that of a line from the Atlantic to the Pacific "entirely through British territory." Such a scheme, to say the least, is very well received here, and vigorous efforts will be made to carry it

The plan revives the long talked-of project of a railroad from Halifax to Quebec. From the latter place to Montreal, a railroad is already built. The proposed Pacific line then follows up the Ottawa. skirting the north shore of Lake Superior, whence it strikes off into the valley of Lake Winnipeg. It then takes the route of the Saskatchawan River to the Rocky Mountains, which are to be crossed

which is assumed, and thence to Fraser's River, or to some point on Puget Sound.

This scheme is very attractive to Englishmen who are not very fond of sharing their mess with others. In reply to the question-"why not take a portion of the line through the territory of the United States where a much more favorable route can be found?" The reply is, "it must be a line for military, as well as commercial purposes, and must, consequently, be entirely within our own territory, and so far from the frontier as to be capable of maintenance and defense." This is the conviction and reasoning of the leading minds here, especially of the peculiar champions of the Provinces, of parties who have done the most towards abrogating the claims of the Hudson Bay Company, and who compose the avant garde of the radical reformers.

To any but a thorough John Bull, nothing can exceed the puerility and preposterousness of such a scheme and such views. In the first place, a railroad cannot be built around the north shore of vouchsafe to it the Imperial revenues for two or three years. In the next place, all the standing armies in christendom could not, in the event of a war, maintain the communication over it uninterrupted. Every bridge culvert would be at the mercy of any person who could carry a cask of gun powder on his back. Above all, in case of war between the United States and England, the former would not be long in helping themselves to whatever possessions and property the latter might have left to them on American soil. But to all such considerations a genuine Englishman is blind. He is governed by maxims and traditions which he has gained in his intercourse with the nations of the old world, and cannot except from their application the people of the new.

In this connection I will take occasion to say a word in reference to the proposed confederation of the British North American Provinces. Its object, here at least, is twofold-to quiet the conflicts that are perpetually arising between the two races and the two Provinces of Canada, and as the Times newspaper recently stated in an elaborate article, "to erect a barrier to the ambitious and aggressive through some unknown pass, the practicability of restless and turbulent, was never more so than at tive, they would enjoy the trip all the more, from

the present time. We think, however, it will require a heavier dray than the light one of the Lower Provinces to give regularity to its action. Confederation would, perhaps, give predominance to the English element, without rendering the French more tractable. But all plans for a union must be regarded as far-fetched and absurd, especially since the treaty of reciprocity with the United States. Hardly the slightest commercial or personal intercourse exists between the Canadas, and New Brunswick and Nova Scotia. No tie of interest whatever connects them. In fact, the interests of the Lower Provinces are entirely against the consolidation proposed, provided it should interfere in the slightest degree with their relations to the United States. It would, undoubtedly, most materially interfere, for it is not at all likely that the latter would see a confederation framed to resist their "ambition and aggression," without putting such confederation in position equal to that of the "most favored nation," instead of treating the members of it, as they now do, as far as com-Lake Superior, unless the Home Covernment will merce is concerned, as one of the sister States. When such an alternative is presented, no representation, either on the part of Canada or the home government would have the least influence over the Lower Provinces, as they would not sacrifice to an ideal nationality their present enviable commercial position, which gives them free access to the markets of both countries. The plans for nationalizing the Provinces, and for the construction of a great national highway to the Pacific, entirely through British territory, will, I fear, fall to the ground together.

As compared with continental Europe, England is a shining light; but in spite of her free institutions, and her extended commerce, it is hard for her people to divest themselves of their prejudices, and a certain national rigidity of mind, the possession of which renders them the most uncosmopolitan people in the world. The people of the United States would be delighted to see a "Pacific Railroad" constructed entirely through "British" territory, and would patronize it with as much freedom and satisfaction as one through their own. They would be entirely satisfied with a cheap and rapid means of conveyance, no matter through policy of the United States." Canada, always whose soil. If the road should prove unproduc-

the consciousness that they were being accommodated at another's expense. In America, where there is no power to challenge entire freedom of action, not hostile to our religious and social ideas not immediately within the circle of his daily du and organizations, we have little conception of the jealousies of the old world, which are but the memories of past conflicts, which make up the histories of their intercourse. With Americans, any person who will lend a hand toward subduing a continent, and fitting it for the abode of civilized man, is received with an open palm. He wants no other title to respect or favor. But should he spend the greater part of his time and money upon works of self-defense, when, with good behavior, every one would be his friend, he would be looked upon as having a very soft spot in his head. The people of the United States are always pleased to see John Bull spending money on their continent, and would be delighted to see a dozen railroads to the Pacific entirely through his territory, and use them too; but this does not justify the undertaking on his part, of works which can only end in disaster, and the ill success of which may discourage him from helping to construct such as are really practicable and useful.

Should a railroad to the Pacific, partly through British territory, prove practicable, it must be based upon the railroads of the Northwestern American States. At present, St. Paul, the capital of Minnesota, is probably the best point for commencing. The line would thence take a northwesterly direction through the valley of Red River, thence striking into the valley of the Assinaboine, thence into the valley of the Saskatchawan. Such a route would, undoubtedly, pass through a fine territory, having a good climate. The practicability of crossing the Rocky Mountains, and of constructing a road between them and the Pacific, must yet be considered as an unsolved problem. Should the report of the discoveries of gold on Fraser's River be fully confirmed, a large overland emigration will, the coming season, take the route described, and the country and its capabilities will soon become better known. This emigration will have another effect of settling the Hudson Bay question. It would soon render a considerable portion of the territory claimed by it worthless for furs, and would end by the establishment of large settlements throughout the vallies of the Red, Assinniboine, and Saskatchawan

For reasons already given, the old scheme of the Halifax and Quebec Railroad is still warmly encouraged here, independent of its connection with a Pacific Railroad. No less a celebrity than Mr. Roebuck, strenuously advocates it. He takes the general ground that, at the present time, a large portion of British merchandise going to the Canadas, and passing through the United States, pays full duties into the United States Treasury. To avoid such onerous burdens he is the earnest advocate of the Halifax and Quebec line! He seems to be entirely ignorant of the fact that, for years, British goods pass through the United States to Canada, in bond, without the charge of a penny by the American Government. I might almost say that this is a fair specimen of the accuracy of the knowledge of British statesmen upon American affairs. The English people proverbially incurious, stand in reference to the United States and to their own colonies, in the position of a pa-

rent, whom age, a comfortable amount of this world's goods, and a good degree of immobility, have rendered completely indifferent to anything ties and experience. His children, on the contrary, never lose their interest in the old homestead, but treasure up all their recollections of it, which they keep fresh and bright by carefully informing themselves as to everything that is taking place in it, and all the changes it may undergo. In reference to the line last named, Mr. Roebuck also advocates it for its military uses. There is, in fact, a strong disposition here to preserve to the Canadas a distinct nationality, in a sort of virgin purity, modeled, as far as possible, upon the original of the mother country. Above all, there is a wish here to save it from contamination and debauch by too close a contact with Brother Jonathan, a rough, unseasonable and unceremonious fellow. whom John Bull is trying hard to accept and love -through his reason, however, rather than his heart. But to go from one thing to another, it is a remarkable fact that in all the British colonies there is not, in their political organizations, the slightest disposition to repeat the political and social distinctions, which are so many castes, of the mother country. The logic of the British mind is against them, and where it can have free play, abolishes them altogether. All the British colonies left to themselves would adopt the United States as their model, and in their legislation repeat their history.

#### Report on the Condition of the Atlantic Telegraph Cable.

At length we have something official and intelligible in relation to the condition of the Atlantic Cable. Mr. VARLEY, "the Electrician of the Electric and International Telegraph Company"so he is styled by the company-has made the following report on the state of the cable as observed by him on the 6th, 7th, 8th, 9th, and 10th of September:

London, September 18, 1858. To the Chairman and Directors of the Atlantic Telegraph Company:

I arrived at Valentia on the evening of the 5th instant, when I found that no words had for many days been received through the cable from New-

On the 6th, 7th, 8th, 9th, and 10th I tested the cable at intervals, in four different ways, to ascertain its condition. The following are the results:

1. There is a fault of great magnitude at a distance of between 245 and 300 statute miles from Valentia, but the locality cannot be more accurately ascertained until a portion of the cable, 20 or 30 miles in length, has been tested against my standard of resistance, and until the log has been consulted to ascertain the amount of slack paid out. I would suggest that the piece of cable at Greenwich be carefully measured and tested against my standard, in order to obtain the most correct estimate of the distance of the fault. Assuming, however, that it is 270 miles, and allowing 22 per cent. for slack, it is possible the chief defect is in shallow water—410 fathoms.

The copper wire at the faulty place above alluded to, does not touch the iron covering of the cable, as is proved by its forming a voltaic element, which gives rise to a continuous positive current from the copper wire, varying very little

in tension. 3. The insulation of the wire between Valentia and the fault is perfect, or at least contains no defect of sufficient importance to be perceptible, or to materially influence the working were the cable otherwise perfect.

4. The copper wire is continuous, and consequently the cable has not parted. Faint signals or reversals are still received from Newfoundland, but the power used will shortly eat away the exposed copper wire in the faulty place by electrolytic decomposition.

The actual resistance of the tault appears to be at least equal to ten miles of the cable, but is most

probably greater.

Taking it at its lowest resistance, viz., 10 miles, and assuming that Newfoundland is only using 180 cells of Daniel's battery, the strongest current received thence during my stay was only 1-24th part of the force that it should be were there but this one fault. When it is, however, borne in mind that on the other side they are probably using more power, and also that the defect first alluded to probably offers more resistance than that assumed, viz., ten miles, it is evident that there is another and more distant fault, the approximate locality of which I could not pretend to estimate at this end without being able to speak to Newfoundland.

From authentic data shown to me at Valentia. I am of opinion that there was a fault on board the Agamemnon, before the cable was submerged. at a distance of about 560 miles from one end, and

640 from the other.

The following are the data in question, but on what occasion they were obtained I am unable to state. They were, however, probably taken when the ships were at Queenstown:

Testing of Coils on Board the Agamemnon, Consisting of About 1,200 Statute Miles of Cable.

- 1. When the upper end was disconnected the current entering the cable from a battery was ...... 8.5 parts. 2. When the upper end was put to the earth the current entering the cable was..... ....... 10.5
- 3. Current going out of the upper end of the cable to the earth..... When the lower end was disconnect-
- ed the current entering the cable
- Current going out of the upper end of the cable to the earth ..... 4.5

showing that if there were a fault it was nearer to the upper end, but not far from the middle of the

When 200 miles had been removed from one end of the coil, (but from which end I am not at present aware,) leaving 1,000 miles, the amounts

6..... 6.5 "

indicating that there was a fault, by rough calculation, at about 560 miles from one end and 440 from the other.

With the 200 miles of cable amounts were-

1...... 2 parts. 4...... 2.....40 3.....39,5 " 6.........39.5

Test of the Entire Cable on Board the Agamemnon and Niagara-viz., 2,500 Miles. BATTERY AT AGAMEMNON END.

1. Current entering the cable, the Niagara end being disconnected ..... 45 parts. earth......151

BATTERY AT NIAGARA END. Current entering the cable, the Agamemnon end being disconnected... 25# parts. Agamemnon end to earth......37 Current flowing out at Agamemnon

end to earth.....14 indicating considerable leakage on board of the

O

Agamemnon. I am also informed that the currents through the

cable, even immediately after it was submerged, were so weak that relays were useless, and that not one perfect message was recorded by them,

everything that was received being read from the June. deflections of a galvanometer.

By comparing the above data with those of the new cable now making by Messrs. Glasse & Elli-ott for the Electric and International Telegraph Company, the amount of current which entered the 1,000 miles of cable when disconnected at one end should not have exceeded 2 or 2.5 parts, intead of 7.5 and 8.5 parts.

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The inference by rough calculation, therefore, is that there was a fault offering a resistance equal to 1,000 or 1,200 miles of cable, situated at a distance about 560 miles from one end of the 1,200 mile coil on board the Agamemnon.

This, however, cannot be the fault first alluded to, situate at about 270 miles from Valentia, but may have been the one which caused such alarm when the ships were 500 miles from Ireland, and hen the signals ceased altogether and never certainly recovered.

It is not at all improbable that the powerful currents from the large induction coils have impaired the insulation, and that had more moderate power been used the cable would still have been capable of transmitting messages.

To satisfy myself on this point, I attached to the cable a piece of gutta-percha covered wire, having first made a slight incision in the gutta-percha to let the water reach the wire; the wire was then bent so as to close up the defect. The defective wire was then placed in a jug of sea water, and the latter connected with the earth. After a few signals had been set from the induction coils into the cable, and consequently into the test wire, the electricity burnt through the incision, rapidly burning a hole nearly one-tenth of an inch in di-

When the full force of the coils were brought to bear on the test wire by removing them from the cable and allowing the electricity only one channel, viz., that of the test wire, the discharges, as might be expected, burnt a hole in the gutta-percha under the water half an inch in length, and the burnt gutta-percha came floating up to the

The foregoing experiments prove that when there are imperfections in the insulating covering there is very great danger arising from using such intense currents.

The size of the present conducting strand is too small to have worked satisfactorily, even had the insulations been sound. With a strand of larger dimensions less intense currents would be required,

and both speed and certainty increased.

It is not, however, altogether impossible that some intelligible signals may yet be received through the cable, as stated in my previous communication.

C. F. VARLEY,

Electrician of the Electric and International Telegraph Company.

### James River and Kanawha Canal.

The clearances at the Lyncburg Toll Office of the James River and Kanawha Canal during the fiscal year, ending 30th September, 1858, were as

	Wheat	528.072	bushels
	Flour	64.173	barrels
	Leaf Tobacco8	016.447	pounds
	Manufactured Tobacco6	311.145	- 44
	Tobacco Stems1	721,670	
	Copper Ore	594,569	- 11
	Bar and Pig Lead	951.833	***
	Pig Iron.	2.276	tons.
	Wood for Fuel	4.457	cords.
	Miscellaneous		tons.
	Total tonnage for the year		- 66
•	Excess of total tonnage over fis-	Ship	70 2 100
	cal year—1856 and 1857	16,649	* **

#### intonio and Mexican Gulf Railroad.

The iron for this road has been purchased upon

June. Parties have also succeeded in negotiating that act, the location within the prescribed limits for the iron for the Houston and Brazoria Railroad was made subject to the approphation of the Comwhich will be a continuation of the Tap Road to Columbia, thence to Wharton.

#### Journal of Railroad Law.

THE HARLEM RAILROAD AGAIN .- THIRD PRELIM-INARY INJUNCTION DISSOLVED.

Our readers are very likely tired of this matter as doubtless the courts are by this time. It comes up, Proteus-like, in every variety of form, and is elastic against all injunctions. In the Jour-NAL of August 14th, was given a history of the case, prefatory to Judge Hilton's opinion relative motion in the U.S. Circuit Court, made a short time after the one last mentioned, a concurrent decision was rendered by Judge NELSON. The action was then brought in the Common Pleas a second time, and in a new form, against the Mayor, etc., of the city of New York and the in the opinion below. The opinion is an elaborate one, and the points decided are entirely different from those discussed on the former motions. As will be seen, it leaves the Common Council free to act on the resolution to rescind the ordinance of 1854 prohibiting the use of steam on Fourth Avenue below Forty-second street.

BRADY, J .- This action was brought for the purpose of perpetually enjoining the Mayor, Aldermen and Commonalty of the City of New York from granting permission to the New York and Harlem Railroad Company, or any other company or person, to run steam engines on Fourth avenue, or on the track of the New York and Harlem Railroad Company, below or south of Forty-second street, or from removing the existing prohibition against doing so, created by resolution approved by the Mayor Dec. 27, 1854, and from repealing that resolution; and also to prevent the New York and Harlem Railroad Company from running or suffering any company or person to run any steam engine upon their track below or south of Fortysecond street.

Two questions are presented by this application, which must necessarily be considered and de-

First,-Whether the anticipated resolution is legislative in its character; and

Secondly,-Whether the use of steam by the New York and Harlem Railroad Company, in the manner complained of, is authorized by law.

A number of propositions were presented and argued on this motion incidentally bearing on these questions, which, in the consideration of them would be valuable if the authorities to which reference will be made were not conclusive.

In reference to the first question, the act of the Legislature, passed April 25, 1831, incorporating the New York and Harlem Railroad Company, conferred upon that Company power "to construct a single or double railroad or way from any point on the north bounds of Twenty-third street to any point on the Harlem River," between certain specially described boundaries, and "to transport, The iron for this road has been purchased upon the most favorable terms. Forty-two hundred tons of best quality English iron will be shipped from Cardiff, to be in Port Lavaca on the 1st January, which will build the road including five miles already constructed, fifty miles, which will be completed and in running order by the first of next choose to employ," and by the second section of the interval of the judges decide to t

was made subject to the approbation of the Common Council of the City of New York.

In addition to this, by the 16th section of the same act, the Corporation of the City of New York were empowered to regulate "the time and manner of using the road, and the speed with which carriages should be permitted to move on the same or any part thereof."

Under and by virtue of that act, the Mayor, Aldermen and Commonalty by ordinance approved December 22, 1831, granted permission to the said Company to construct and lay down in pursuance to the power of the city to prohibit the use of of their act of incorporation, a railway now used steam below Forty-second street. On a similar by them, from Twenty-third street to Harlem

From this brief statement of the origin of the Company, it will at once be seen that authority emanating from the proper places was given, not only to construct a railroad, but to use steam as a motive power, and that the location of such road Harlem Railroad Company, for the purposes stated having been determined in the manner prescribed by the statute, it became permanent, subject only to the power of the Common Council, to regulate its use as provided by section 16 of the act before mentioned, and their general power over streets, derived from various charters.

> The right to use steam, therefore, as a motive power having thus been conferred upon the Company, an ordinance or resolution, determining the point at which it must cease, is not a grant or license, but a mere exercise of the power to regu-

> It grants nothing, and when it limits the use of steam, at any point north of the southern terminus mentioned in the act of incorporation, it restricts the enjoyment of the original grant or franchise. It is said by Judge Hilton (Am. R. R. JOURNAL, August 14th,) that the regulating or legislative power of the Corporation over the streets, which partakes of the character of legislative sovereignty having been originally conferred by the Dongan charter in 1686, and confirmed by the Montgomery charter, and subsequently by legislative grants, it may well be doubted whether the city can be deprived of it, even by an act of the Legislature itself. New York and Harlem Railroad Company vs. the Mayor, etc., Common Pleas. And on this subject see Hoffman's Treatise on Corporations, 42, 62,

I think it thus appears that the resolution which the plaintiffs apprehend would, if passed, be purely legislative in its character, authorized by law, and not subject to the control of the courts. Milhau vs. Sharp, 17 Barber, 438. The People vs. Lowber and the Mayor, etc., opinion of Judge Ingraham.

But if the resolution referred to could be construed as a grant, it would be valid, being authorized by act of the Legislature. Davis vs. the Mayor, 4 Kernan, 506. The People vs. Sturtevant, 5 Selden, 273.

In the case of Davis, Justice Denio refers to the charter of the New York and Harlem Railroad Company as illustrative of the power of the Municipal Government to license the location of railroads in streets when authorized thereto by the

ordinance heretofore limited the use of steam to Forty-second street, because the power to regulate is continuous and discretionary. New York and Hartem Railroad Company vs. the Mayor, etc. Common Pleas, supra opinion of Judge Hilton.

In disposing of this branch of the case, it is proper to say, assuming, as claimed by the plaintiffs, that the New York and Harlem Railroad Co. have not complied with the ordinances of the Common Council, or kept their agreements in all respects in reference to the use of the Fourth avenue as a railroad, that those facts do not warrant the interposition of courts upon the application of a third party, however strongly they may address themselves to the Common Council in reference to the exercise of their regulating power.

They are matters resting entirely between the Common Council and the Harlem Railroad Company, of which the former should doubtless take notice, and remedy in the faithful discharge of their public trust.

I deem it also proper to say that, in matters which are discretionary, a charge of improvident legislation does not authorize the interference of the courts. There may be some reason of public necessity or public benefit which will influence the Common Council to repeal an ordinance a short time since defended as a just measure of legislative policy, however extraordinary that may seem; but I have no power in a case like this to call for motives or reasons for legislative acts.

There being, then, no power to prevent the repeal of the ordinance of December 27, 1854, the second question presents itself, viz:

Whether the use of steam by the New York and Harlem Railroad Company is authorized by law? I have adopted this form of the question, because it seems to be established beyond controversy on principle and authority, that what is authorized by law is not a nuisance. (1st Baptist Ch., etc., vs. the Utica and Sch. R. R. Co., 6 Barber, 318. See also 5th Barber, 79. Brown vs. Susquehanna R. R. Co., 2 Kernan, 491.) It is a legal solecism to call that a public nuisance which is maintained by public authority. (Per Justice Hand. Harris vs. Thompson, 9 Barber, 364. Davis vs. the Mayor. etc., 4 Kernan, 524.) In this case of Davis, although it is asserted that the use of cars on a railroad in Broadway would be a public nuisance, yet it is said by Denio, J., that "if authorized to run upon the street, inconvenience would have to be submitted to, but if placed there without right. the authors of the act could not defend themselves from the charge of nuisance;" and he stated further, that "the authorities leave no doubt upon the question."

If, however, a thing be authorized by the Legislature which by the common law would be a nuisance and there be any excess of the power conferred, or any irregularity in its exercise, it would be a nuisance pro tanto. (Renwick vs. Morris, 3 Hill, 363; 7 Hill, 576.) And in actions to recover consequential damages arising from the use of steam on railroads and authorized by law, the defendants are not liable unless the act complained of was not in conformity to the law, or the authority given was not exercised with proper care and skill. (Chapman vs. the Albany and Sch. R. R. Co., 10 Barber, 300; 6 Barber, supra, 303. Williams vs. the New York Central R. R. Co., 16 New York Rep., 103.

The mere exercise of the franchise, though it may occasion inconvenience and interfere with the full enjoyment of health and property, by producing effects disagreeable to the senses, or otherwise affecting the safety of life and person, would not make it a nuisance, provided, as already suggested, the precise thing is done which is authorized by law.

It is not shown in this case that the New York and Harlem Railroad Company are exercising the privileges of their charter in an unlawful manner.

The objection goes to the use of steam south of Forty-second street as a motive power.

Upon the principles evolved by these cases, and on the facts and circumstances disclosed by the complaint and papers submitted, I should feel at liberty to determine that the use of steam below Forty-second street by the New York and Harlem Railroad Company was a nuisance which should be arrested at once, if there was no act of the Legislature authorizing it; but with such an act before me, it is equally my duty to say, for the reasons herein before assigned, that such use of steam is not a nuisance, and cannot be restrained.

It was urged on the argument that the Legislature had no power in itself to authorize the creation or existence of a nuisance. However correct this may seem to be as a general principle, the power of the Legislature to subvert the common law has been employed in numberless instances; and the right to do so, unless violative of some limit in the Constitution, has not been questioned in any case in this State that I am aware of.

Indeed, it is not an uncommon thing to find in the adjudications of this State, the principle that statutes in derogation of the common law must be strictly construed. Harris vs. Thompson, supra 9 Barber, 365, 12 Howard Pl. Rep. 14. There is, however, a further answer to this proposition, and it is, that steam as a motive power is not, per se, a nuisance, and, therefore, a grant of the right to use it cannot be said to be the creation of a nuisance.

It may, indeed, with propriety be said, that steam, as a motive power, is one of great practical utility, and its application almost indispensable, in an age when the mind of the whole world, but particularly of this country, seems intent upon annihilating space, by facilitating and expediting the transit of word and person to different points of destination; but yet its appliance, whenever it is possible, should be regulated with regard to the rights of each member of the community.

I think the injunction demanded cannot be granted, and that the temporary injunction should be dissolved, and the motion denied.

Ordered accordingly.

A preliminary injunction, similar to the one issued from the Common Pleas, was granted last week by Judge Sutherland, of the Supreme Court. With the exception of one allegation, the application is based on the same complaint as that in the Common Pleas. In that allegation plaintiffs charge "upon information and belief that the members of the present Common Council bave been bribed by means of money or promises of the same to vote in favor of the repeal of the said ordinance." Mr. O'Conor is engaged in behalf of the Company. The motion is still pending.

### (From the Journal of the Franklin Institute.) Railroad Frictions.

On the necessity of further Experiments on Friction, especially upon Railroad Frictions, or the Friction of Metals in motion, under heavy insistent weights and small surfaces of pressure. By Ellwood Morris, Civil Eng.

The importance of a correct knowledge of the laws of friction can hardly be exaggerated, as without this knowledge, the finest conceptien of the mechanic and engineer would fail to realize their appropriate results. In modern times these laws have received great attention, and yet in some of the most important frictions of the day, the experiments which guide us are both inadequate and anomalous.

A long roll of the ablest mechanical philosophers have devoted themselves to illustrating the friction of substances:—from Amontons, [1699,] through Coulomb, [1781,] Vince, [1785,] and Rennie, [1829,] down to Morin, [1821-4,] who, under the direction of the Government of France, made an elaborate series of experiments on Friction:—yet notwithstanding all the high intelligence, and the labor expended upon this important subject, the engineers who first came to apply the laws enunciated by the philosophers to the estimation of the frictions between metals under heavy insistent weights as they occur upon railroads, for instance, soon found themselves most wofully at fault.

Although Amontons, De La Hire, and Euler had assumed the co-efficient of rubbing friction between hard bodies, [without unguents,] to be usually about  $\frac{1}{3}$ d of the insistent weight, Rennie, and other acknowledged authorities, had shown experimentally, that without unguents the rubbing friction between hard metals might "very generally be estimated at about 1-6th of the pressure"\*
—but this—in Rennie's trials—was with small insistent weights of less than 33 lbs. to the superficial inch of contact, and we may here say, that all the mechanical philsophers limited the deductions from their experiments "within the limits of abrasion,"—and though Morin showed that all frictions without unguents produced some slight abrasion, this militates not against our generalization, as under the moderate insistent weights employed in the experiments, that abrasion was necessarily but little-too slight, indeed, to seriously affect results.

Morin's experiments confirmed generally those of Rennie, but the applied weights were not at all adequate in magnitude to represent what we now term "Railroad Frictions."

A reliance upon the results of these philosophers—accurate though they may be within their limited range—led at once to erroneous conclusions, when applied to the heavy frictions of railroads.

A brief illustration of this will suffice:—In 1838, Nicholas Wood, Esq., published in London a much enlarged and carefully revised and improved edition of his valuable and well known Treatise on Railroads—his own experiments therein cited, though made with too small weights, showed 1-6 to 1-16 adhesion or bite of the wheels of locomotives upon rails; and this adhesion, it is well known, furnishes the fulcrum for their motion, and absolutely limits their progressive power.

Nevertheless, Mr. Wood, in the standard work referred to, finally concluded to assume only 1-15 of the insistent weight as the effective adhesion of a locomotive clear of that necessary to move it-

To show the anomalous condition of the science of friction at that day, [1838,] though more than four years subsequent to the publication of the bulk of the celebrated experiments of Morin, and nine years subsequent to those of Rennie, we may state, as a curious fact, that in the very same year [1838] one of our ablest and most experienced American civil engineers, B. H. Latrobe, Esq., in his famous report upon the location of the Baltimore and Ohio Railroad, assumed—as the result of experience here—1-7.5 as the co-efficient representing the effective adhesion of a locomotive engine

\* Vol. 119, Philos, Transac., 1829, p. 160,

We see, then, that upon opposite sides of the Atlantic ocean, at the same moment of time, two of the highest authorities on railroad subjects, both thoroughly acquainted with the accepted laws of friction, were founding the most vital and important conclusions npon the adhesion of locometives; and yet the English authority was assuming that adhesion to be only 1.15 of the weight upon the driving wheels, while our American authority, as the result of actually existing experience here, stated it at 1-7-5, or precisely double! And we may here add, with pleasure, that Mr. Latrole was much the nearest right.

At a long subsequent period, [1853.] Mr. La-

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At a long subsequent period, [1853,] Mr. Latrobe found by careful trials at the opening of the mountain division of the Baltimore and Ohio Railroad, that the performance of the heaviest class of locomotives, with full loads upon the 105 and 116 feet ascending grades of that well known railroad, showed an adhesion in actual work of nearly \( \frac{1}{2} \). And in support of this, we may state, that the working of fully loaded locomotive engines on other roads has now shown conclusively, that at low speeds in the haulage of heavy freight we may fully rely upon an average adhesion of 1-6 of the weight upon the driving wheels of a locomotive; while under favorable circumstances an adhesion of \( \frac{1}{3} \), or even more than \( \frac{1}{3} \), will be developed, in defiance of the maximum of friction having been fixed by modern writers at 1-6th.

The late W. R. Casey, Esq., a civil engineer of eminence, in an able article published in the American Railroad Journal, Sept. 15, 1839, was the first to draw the attention of professional men to the fact that we were largely under-esti-

The late W. R. Casey, Esq., a civil engineer of eminence, in an able article published in the AMERICAN RAILROAD JOURNAL, Sept. 15, 1839, was the first to draw the attention of professional men to the fact that we were largely under-estimating the maximum adhesion of locomotives; and he showed conclusively that even in 1836, Baldwin's and Norris's American locomotives had already realized an adhesion of between ½ and ½ of the weight imposed upon their drivers!

These, and other facts, clearly indicated that the laws of friction, as then accepted by the mechanical world, were inadequate to guide us in the new frictions developed by the application of steam power to railroads; and the uncertainty existing in the minds of even professional men, as to the true co-efficient of friction, developed by the adhesion of a driving wheel upon a rail, accounts in part for the astonishment with which many engineers witnessed the ascension by locomotives of inclined planes, previously worked by stationary power, and this uncertainty doubtless had its weight in inducing a leading English engineer—Prof. Vignoles—even so late as 1844, to name 1 in 50, or a gadient of 105 6-10 feet per mile, as the limit of grade which could be practically worked by locomotive power, though at the present day we know that upon the Baltimore and Ohio, and Virginia Central Railroads, gradients of 1 in 20, and even 1 in 10, have, temporarily, been successfully surmounted by locomotives, with passengers.

For the very important discrepancies which are found between the railroad frictions, actually developed by practice, and what they should have been, had they followed the laws laid down by Rennie and Morin, the writer has endeavored to account—without invalidating the labors of either—by remarking that all the experiments upon the friction existing between metals in motion, from which the mechanical philosophers have deduced their governing laws of friction, were made within the limits of abrasion, and were usually stopped so soon as the metals began to abrade each other—while, on the other hand, all railroad frictions are destructive frictions, or those in which the metals in contact constantly abrade each other.\*

It will be seen, then, that the ordinary experiments upon friction are inapplicable to some of the most important railroad frictions, and hence there would seem to be a real necessity for further experiments, under the actual circumstances which occur on railroads, or, at least with such great weights, and small surfaces of contact, as may more closely assimilate to them.

A somewhat similar view of this subject was

taken by the writer, in an article in this Journal for March, 1851, in which he argued the probability that—contrary to the received laws of friction—under great insistent weights and small surfaces of pressure, as between the driving wheels of locomotives, and the rails on which they move, there was strong reason to believe that friction increased in some ratio to the surface pressed.\*

It will be remembered that Rennie and Morin both concur in laying it down as a law, that friction is always "proportional to the pressure," irrespective of the extent of surface pressed or of velocity, and that this is almost universally accepted by the mechanical philosophers of our day, [though recent French experiments indicate that velocity should not be neglected;] if, then, it can be established that within the important range of railroad frictions, whether owing to abrasion, or any other cause, "friction actually increases in some ratio to the surface," and not wholly irrespective of it—as now taught—important consequences can hardly fail to flow from such conclusion, and the necessity of further experiments to establish the laws of abrading frictions, between metals in motion, will become apparent.

In his article of 1851, the writer said: "When engines slip their wheels on railways, both wheels and rails abrade, the law of friction changes, and we enter at once upon a new field, in which we have no exact results recorded, and of which we only know that the co-efficient of friction is great-

The writer had frequently computed the adhesion of locomotives from actual loads drawn by them on railways of known grade, and like other engineers had found, that the adhesion exhibited, far exceeded the extreme limit of 1-6, laid down as the maximum by Rennie and Morin; and he had also noticed that fully loaded locomotives, in passing from broad to narrow rails, invariably slipped their wheels, upon striking the narrow rail; and hence, in the article of 1851, he inferred that the adoption of rails of the top width of the available wheel tread—say 4 inchest—would largely augment the ascensive power of locomotives on high gradients. Since then a striking fact has been made known, which seems to confirm, in a conclusive manner, the accuracy of the views then taken, on this important point in railroad affairs.

The fact referred to, has been developed in the working of the Mine Hill and Schuylkill Haven Railway, a heavy coal road: the Chief Engineer of this work, R. A. Wilder, Esq., an able and experienced officer, states that upon his road a 92 feet grade laid with narrow topped rails, is immediately succeeded by a 130 feet gradient, on which rails of full width are placed, and in the working of this road with heavy coal trains, "it is found that an engine can draw more—ascending—upon the 130, than on the 92 feet grade, although the actual resistances on the former grade are full 33 per cent. greater than on the latter." We think he might fairly have estimated the resistances upon the 130 feet grade, as being full 40 per cent. over those of the 92 feet gradient, since gravity alone upon the former would amount to 56 lbs., and on the latter to only 39 lbs. per ton of 2,240.

#### (To be concluded.)

#### Watertown and Madison Railroad.

The Watertown and Madison Railroad was sold on the 18th ult. under a foreclosure of the first mortgage, to Hon. Russell Sage, of Troy, N. Y. He proposes to commence work upon the line immediately and complete it up to Waterloo this fall. The whole road is to be finished in season for the fall trade next year.

\* In the article referred to, an error of the press made the writer say, "in the same ratio to the surface," instead of "in some ratio to the surface," as he wrote at the time.

† Some able engineers, as William Parker, Esq., and J. W. Brooks, Esq., have advocated, and to a limited extent have used, rails 3 inches wide on top, though with a different object in view.

### Railroad Decision.

In the Circuit Court of Bedford County, Va., last week, in the case of Steptoe vs. the Virginia and Tennessee Railroad Company, where the plaintiff sued for damages sustained by him from the trespass of cattle on his wheat field, through the neglect of defendants to keep the cattle guards on their road in repairs, the judge decided that the company was neither obliged to construct cattle guards nor keep them in repair. Notwithstanding the instructions of the court, the jury brought in a verdict for the plaintiff for \$120, which verdict was set aside as contrary to the instructions of the banch.

### Chicago, St. Paul and Fond du Lac Railroad.

At a meeting of the stockholders of this road, held at Chicago on the 6th, the following gentlemen were elected Directors for the ensuing year:

J. R. Pease, Wis.; A. L. Pritchard, Wis.; Winslow Blake, Wis.; Albert Winslow, Wis.; C. Butler, N. Y.; John Bannister, Wis.; S. J. Tilden, N. Y.; O. D. Ashley, N. Y.; Wm. B. Ogden, Ill.; Philetus Sawyer, Wis.; J. F. Chapin, Ill.; Henry Smith, Ill.; Perry H. Smith, Wis.

Mr. Wm. B. Ogden was re-elected President, and Mr. Charles Butler, Treasurer.

The Chicago correspondent of the St. Louis Republican says:

The Fond du Lac Railroad has been given over to the trustees for the bondholders, and a capitalizing scheme has been adopted, to the satisfaction of nearly all parties. The new stock is fixed at \$4,000,000, made up as follows:

\$4,000,000 The first mortgage bonds amounted to. 3,000,000

\$7,000,000

Upon this amount the net earnings of the road will pay an annual interest of 7 per cent. The first mortgage bondholders agree to fund their interest for two years in order to give the company the full amount of net earnings in connection with the construction stock to enable them to finish the road, 55½ miles from Janesville to the La Crosse Junction, which will give them 200 miles of road from Chicago to Oshkosh. The road will be speedily ballasted the whole distance with gravel from the Fox River Valley, at a cost of about \$1,000 per mile. Hon. Wm. B. Ogden is one of the trustees and has contributed over eight hundred thousand dollars towards the construction of the road. Over 2,000,000 acres of lands are held by the company as a grant from Congress to aid in the construction of the road Northward to Lake Superior.

### Racine and Mississippi Railroad.

This road has been completed and opened to the village of Davis, in Stephenson County. The Racine News of the 7th says: "We now have a railroad 91 miles long, in a fine condition, well equipped and as carefully and uniformly operated as any road in the West. This places the road within about twelve miles of the important city of Freeport, and it is now only necessary to complete that small link to give us a direct through line to Galena, Dubuque and the Mississippi River. This twelve miles is more than three-quarters graded, and the iron and other materials for the track are on hand,"

SEPARAL SEA POST WAS GROUNDED

<sup>\*</sup> See Journal of the Franklin Institute for March, 1851, page 152,

Railway Share List,

Compiled from the latest returns -corrected every Wednesday -on a par valuation of \$100.

NAMB OF OOMPANY	Dagthof Ron	Capital pald in.	Delst	Total cost of road & equip't,	Gross Earnings for last official year.	Net Earnings for do.	Dividend for do.	Price of Shares.	NAMB OP COMPANY,	L'ngthof Road	Capital paid in.	Debt.	Total cost of road & equip't,	Gress Earnings for last official year.	Net Earnings, for do,	Dividend for do.	PriceofStares
Atlantic & St. Lawrence	149	2,494,900			576,48		6		Brunswick and Florida, Ga. South Western	30	151,887 1,399,100	463,648 441,292	538,649 2,269,323	In progr. 365,214	208,771	9	=
Androscog. & Kennebec Kezaebec & Portland	72	1,107,526	1,763,78		159,518 218,258		none		Tennessee and Alabama Tennessee and Mississ	80 59	309,754 705,328	626,889 468,384	679,906	53,776 113,802			****
Portl., Saco, & Portsm'th Boston, Conc. & M'atr-si	95	1,896,406	1,104,586	- 1,359,373	253 713 329,763		6	9:3	Memphis and Charlest'n	257	2,228,177	3,495,288	5,572,470	642 022	834,504		
Charlies	86	4,086,926	899.31	3,179,687	855,629	113,077		49	Miss. Central	224 100	1,575,474	2,066,459 926,796	2,503,098	115,679			-
Ooncord Northern, N. H. Coun't & Passumps Riv.	82	1,500,000 3,068,400	406,286	3,068,400	317,050 365,880	165,996	4	45	Southern (Miss.) N.O., Opelousas & G.W.	82	1,000,000 2,800,000	1,400,000 750,000	2,400,000	264,255 284,178	150,789 127,450		
Butiand & Burington	117	1,000,000 2,233,376			177,588 884,128	78,401 77,201			N. O., Jackson & & N Vicksb., Shrevep. & Tex	130 20	4,035 000 851,293	1,815,610	8,500,000	189,003			-
Vermont and Canada	471	1,350,000		1,350,000	Leas'dto	Vt. Cent			East Tennessee and Ga.	111	1,192,974	1,738,669	831,521 2,703,428	In progr. 227,863			-
	25	5,000,000 1,830,000	438,920	2,412,251	808,328 435,868	171,382	6	83 %	Nash, and Chattanooga	159	626,075 2,263,905	1,728,664	3,208,138	61,844 641,552	39,062		
	74 43	4,076,974 3,160,000		4,229,281 8,534,458	770,802 534,176		6	89	Covington & Lexington Lexington and Frankfort	98	1,384,850 430,055	8,065,917 156,899	4,091,604	426,408 95,807	220,906 45,719		-
Boston and Worcester	44	4,500,000 681,690		4,843,779	1,019,149		6	94 49 ¥	Lexington and Danville	13	694,444	71,000	765,500	In progr.			
Connecticut River	50	1,591,110	275,772	1,801,244	267,710	65,096	3	44	Atlantic & Gt. Western	65	741,069 866,939	625,216 77,494	1,502.095 613,231	245,750 In progr.	109,059	6	
Bastern, Mass.		2,583,400 3,540,000	2,441,873 100,000		616,156	272,479 250,848	6	89%	Bellefontaine and Ind.	18	1,874 395 4,746,24	90,400	2,998,892 4,752,820	348,452	120,836 514,740		****
N. Bedford and Taunton	21 2	500,000 3,015,100	none 260,100	541.580	168,925 683,357	27,827 305,140	6	95 %	Olev., Col., and Cincin	000	3,333,712	4,225,558	7,193,010	930,282	433,790		91% 83%
Vermont and Mass	69 5	2,232,541	1,019,148	3,241,975	240,133	52,267		7	Ulev. and Pittsburg 1	33	2,780,744	8,043,992	5,537,486	581,877	309,518		7%
Worcester and Nashua	16 1	5,150,000 1,141,000	205,565	1,351,271	2,117,982 216,888	889,763 82,720	4	104 %			8,000 000 2,155,800	1,495,548 1,526,092	3,955,230 1 3,130,315	,251,539 487,421	581,454 260,763	15	45
Province and Worcester 4		1,510.020 2,350,000	800,000 944,000	1,781,048	344,773 769,065	155,044 372 807	7	82 17%	Cin., Wilm. & Zanesv'e 1	31	2,421,176	3,782,040	5,696,210	223,506	30,288	10	
Hartld Drow and Fishkill same 12	2 1	,941,340	2,375,274	4,202,516	867,895	166,162	one		Dayton, Xen., & Belpre	68	1,490,450 437,838	149,000 422,658	1,582,475 860,496		181,688	10	****
Housatome	7 1	,031,800	423,685 524,244	2,438,947 1,580,723	818,475 237,416				Dayton and Michigan 1 Dayton and Western	35	1,076,602 810,000	893,011 700,481	1,185,826 J 1,035,173	n progr. 125,940	65.253		
N. York and N. Haven-	2 8	738,258	2,882,071 761,462	5,519,580 1,450,318	854,995 88,007	254,569 80,318	one		Eaton and Hamilton	42 65	469,763	832,669	1,176,169	140,936	50,008	10	
N. London, W. & Paimer	6	\$10,500	1,052,000	1,603,230	120,571	51,644	one		Sandusky, Dayton & Cincin. 1	71 9	2,697,090	1,266,000 3,368,006	8,925,157 6,065 090	775,442 682,614	290,128		80 1/4
Albany Northern 3	2	,122,300 439,005	724,183 1,625,098	2,598,671 1,840,695	265,417 117,716				Central Ohio	23 6			0,421,908 4,279,704 1	712,213 546,359	134,371	none	20
Black River and Utica 3 Buffalo, Corn. and N. Y 10		643,330 487,874	317,859		n progr. 172,476		one			50	371,350 ,350,000	31,000	390,933 I	n progr			****
Buffalo and N. Y. Ulty	2	798,439 300,000	2,537,849	8,401,868	288,392	31,896 n	one		Scioto & Hocking Valley	56	403,975	609,050	888,858 I		164,479	none	
Buffalo and St. Line	7	434,111	922,393	1,275,796	679,750 174,089		-2.40	11	Springf., Mt. Vernon & P 11 Tol., Wabash & St. Louis 24	19 0	,000,000	950,000 7,577,500 1	0,542,600 B	ecentis o	pened.		
Cavinga & Susquesauus 36	5 (	315,000 687,000		3,495,832 1,187,562	135,483	48,649	one		Cin., Log., and Chicago 25 Evansy's & Crawfordsy 10	5 4	196,679 986 061	1,006,125	2,080,433 I		124,140		****
Hudson River 144	1 3,	758,466	0,250,362 1	2,737,898 1,	902,828	688,880 no	one	28 X 11	Ind. and Cincinnati	8 1	,686,809 1	1,564,584	3,029,989	491,743	245,622	7	
New York Central 556	24,	136,661 14	4,607,510/8	0,615,815/8,0	325, 19 027, 251 3	578,736	1 1	83%	Ind., Clev. & Pittsburg 8	3				368,189 258, 19	85,248	agone	****
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irwinia Central	8,00	00,988 1.	479,818 4,	681,681 50	08,413 2	70,048 non	e	M	lassachusetts, 5 per ct. 1859 10	18		Do.	do. pre	. 5 do.	10		****
rgima and Tennessee 204 chmond and Danville 140	1,97	77,399	326,407 3,	487,685 48	1,918 2	38,350		N	Po. 6 do; 1864-6510	9	106	Louisi	ana, 6 do.	cp. 1869	72.103 %		04% 93%
cumond & Petersb'g 22 on'd, fred. & Potom'e 130	1,00	34,000 30.000	230,856 1,	205,412 15	6,908	85,180 6 20,212 7			Do. 6 do. 1866-6711 Do. 6 do. 1872-7511	10	113 116	Maryli	and, 6 do	cp. 1870-	90.165	10	06
rerabuta and Roanoka 63	76		158,502 1,	009,115 26	3,874 1	23,661 4			Do. 5% do. 1860-61 10	2%	104	Misson	6 do.	cp187	2. 87%		91 X 87 X
im'ton de Manchester 171	1,12	3,888 1,	215,909 2,	379,168 46	2,674 2	40,938 pon	e	-	Do. 5 do 1858-6010	W.01	105 102	Ohio,	ohna,6 do.	cp 187	8_, 95		95 % 92
amotta and S. Carol. 109	1,20	1,000	126,200 1,	240,241 20	6,917 1 0,722 1	08,541 23 21,555 6	6	- 11	Do. 6 do. 1866-7410 Do. 4½ do.1858-59-64, 9	3	104	Do.	6 do	187	0107		
senvil & Columbia 166	1.29	3,464	968,800 1.	999,080 21	4,865 2	06,774		114	lahama. 6 do coun. 8	5	90	Do.	6 do	1886	5106	10	06 X
0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	4.17	0 205 0	218.525 7.	588.03711 44	0 803 7	38,272 40,585 9	-	110	eorgia, 6 do. do. 1872. 9	914	100%	Penna.	5 do		90%		17%
orgia	4,15	0,000 6,000 5,910 8,560 4,924	199,000 1, 176,896 4,	171,707 31 174,401 1.08	7.770 1	91.892 8	8 H		eorgia, 6 do. do1872. 9 orida Int. Imp. 7 p. ct. 1891 inois Int.Imp. 6 per ct.1847.10	3	85 104	Do.	6 do.	cp187	78		)6  7
orgia Centrai 191	3,72	5,910 1	191,767 8, 96,000 1,	750,000 1,12 500,000 29	2,640 5	26,171 7 x 82,810 10 32 627 8	130	Line In	dians 6 do 9	1	92	Do.	6 do.	cp	92	9	24
acce and Western 102					42 MILES	- BALL 1	75		78 40 6				An .				

NAMES	70	dt peste	tastrogal for	at us	3 41 8 S		o cary in	0.00	in in
COMPANIES. (The following quotations are entitierest.)	Amount Loan,	Descript	ion of Bonds.	Rate Int	Interest pay- able.	Where	Due.	Offered.	Asked
labama and Tennessee River	\$838,000	lat mortgage Do.	e, convertible	7	1st Jan. 1st July April, October.	N.Y.	1872 1866	90	85 95
ellefontaine and Indiana	600,000	Do.	convertible		Jan'y, July	66	1866 1858		86
Do. do	200 0001	income, gua	convertible r. Cl. Col. & Cin.	7	Jan'y, July Feb'y, August		1859	63	75
entral Ohio	1 250 000	1st mort, con	nv. east. sec	7	Divers March, Sept.	- 66	1861-64 1865	50	55
incinnati, Hamilton, and Dayton	500 0001	18t mortgapy	e inconvertible	7	20. Jan. 20. July	66	1867 1880	88	90 75
Do. do. do, incinnat and Marietta	465,000 2,500,000	rar mortgag	do. e, conv. till 1862.	7	May, Novemb. Jan'y, July	65	1868		
incinnati, Wilmington, and Zanesville leveland, Painesville, and Ashtabula.	1,300,000	Do.	inconvertible	7	Febra Angent	64	1862 1861	93	95
leveland and Pittsburgh.	567,000 800,000	Do.	Convertible	- 7	FULL V. Allowat	44	1860 1873	55	65 55
De. dolleveland and Toledo	1,200,000 525,000	Do.	on Branches	7	March, Sept. Feb'y, August.	- 66	1868	75	80 60
bica 30 and Mississippi	800,000 1,200,000	Do.	conv. till 1857	. 7	April, October	- 46	1862-72 1862-72		60
lovington and Lexington	400,000	Do.	A		April Octobou	1	1867 1883	62 × 45	65 47 M
Do. Delaware, Lackawanna, and Western.	1,000,000	rae moteks	e, convertible	-	March, Sept.		1875	74	74%
Plorida Freeland	1,500 000 1,250,000	Do. Do.	not convertible	le.	March, Sept. Jan'y, July		1891 1873	-	72%
Jaiena and Chicago	2,000,000	Do.		-			1863 1875	97 % 94	98
Do. do Great Western (Illinois)	1,000,000	lst mortgas	e, do	1	May, Novemb	66	1868		93
Green Bay, Milwaukee, and Chicago Jeffersonville	400,000 300,000	Do.	2d sec. incom		April, October	64	1863 1873	87%	
Indiana Central	600,000	Do.	convertible		May, Novemi	30	1866 1860-61	70	85
Indianapolis and Bellefontaine	450,000 500,000	Do.	do. conv. till 1857		7 March, Sept.	66	1866	75	82)
La Crosse and Milwaukee Lake Erie, Wabash, and St. Louis	950,000 3,400,000	lst mort. 1s	t sec. conv. till 18 ge, conv. till 1850	264	8 May, Novem 7 Feb'y, August	0.1	1874 1865	71%	72
Little Miami	1,500,000	I DO.	Inconvert		6 2 May 2 No	P . 16	1883	82 X	85
Michigan Central	1,000,000	) DO.	ge, convertible		April, Octobe March, Sept,	r. Bos	1869	93	95
Milwaukee and Mississippi	600,000	lst mort, la	st sec. conv. till 18	857 858	April, Octobe	N. 1	1862 1863	74	- 73
Do. do	1 250 000	Do. 3	d do. 1	860	g June, Decem	b. "	1877	75	78
New Albany and Salem Do. do	2 325 000	Do. 10	th. sec. con. till 1	858	8 May, Novem	b. 66	1858-62 1864-75		90
Northern Cross.	1.200.000	lat mortga	ge, convertible -		8 Jan'y, July 7 Feb'y, Augus	"	1873 1867		85
Obio and Indiana Ohio and Pennsylvania.	1,750,000	Do.	do		7 Jan'y, July	44	1865-66	1	70
Do. do. Pennsylvania (Central)	2.000.000	Income, co	onvertible	0	7 April, Octobe		1872 a. 1880	100	101
Racine and Mississippi	680,000	Do.	conv., sink'g	f'd	8 Feb'y, Augu 7 May, Novem	st. N.	7. 1875 1861		75
scioto and Hocking Valley	1 500 000	Do.	1st sec. convertible .		7 Jan'y, July -		1865		-
Terre Haute and Indianapolis	1,000,00		do.		7 March, Sept. 7 Feb'y, Augu		1866 1862'7'7	2 58	63
NAMES	1 6	1		1	1 7	1	TENT	117	1
COMPANIES.	Loan.	Descri	iption of Bonds,		Interest pay	P- 010	ple	pe	90
(The following quotations include the accrued interest.)	Amount Loan,	-11 1/2	THE TO DAIL		able.	Where	paya Due.	Offered	Asked
Baltimore and Ohio Chicago and Rock Island.	1,128,50	0 Mortgage.			6 Jan'y, July . 7 10.Jan. 10.Ju	Bal	t. 1875	85	
Chicago and Rock Island.	2,000,00	0 1st mortg	age, conv. till 18	58 .	7 10.Jan. 10.Ju 7 May, Noven	aly N.	7. 1870 1867	93	95 98
Do	4,000,00	0 2d mortga	ge, convertible .		7 March, Sept			82	85
Do.	6,000,00	0 4th mortga	geage, not convert	ible	7 March, Sept 7 April, Octob	oer 6	1880	56	56
Do. Do.	4,000,00	Not conv.	Sink. Fund, \$420 le, Inscription	,000	7 Feb'y, August 7 Feb'y, Augus	Bt. G	1871	33	34
Do	3,500,00	00 Convertib	le		7 Jan'y, July .		1862	32	33 102
Hudson River	2,000,00	00 1st mortg	age, Inscription do.		7 10.June, 10.1	Jec	1860	90	% 91
Do. Illinois Central	0 000 00	A 20 00	convertible inconvertible		7 May, Novem 7 April, Octob	nb.	1010	70	
Do. (Free Land)	3,000,00	00 M'ge 345,0	100 acrs-priv.7 st	ar's	7 March, Sept	4	1860	86	87
New York and Harlem.	1.800.00	00 Do.	age, inconvertible	0	7 March, Sept 7 March, Sept 7 May, Nover 7 June, Decer 6 Jan'y, July 7 Feb'y, Augu 6 May, Nover 7 15. June, 15. J	nb.	1861-7	2 89	90
New York and New Haven New Haven and Hartford	750.00	00 No mortg	age, do.		7 June, Decer	nb.		93 90	96
Northern Indiana	1,000,00	00 Do.	do.	-	7 Feb'y, Augu	st.	1861	81	X 88
Do. Goshen Branch New York Central		00 Do. 00 No mortg	do.	-	6 May, Nover	nb.	1883	68	93
Do do	3,000.00	00 Nomige	onv.from June 5	7-59	7 15.June, 15.1	Dec	1864	104	
Panama, 1st issue Do. 2d do	1,478,0	00 Do.	till 1856		7 Jan'y, July		1866	90	
Reading	1,573,0	Do. Mortgage Do.	inconvertible		6 Jan'y, July	Ph	ila. 1860 1870	91	9
Do.	3,469,0	00 Do.	inconvertible			er_	1886	72	
CITY SECURITIES. (I	nt'st payal	ble. Off'd A	skd CITY	7 SE	CURITIES.	In	st payab	le. Of	Pd, A
New York. 5 per ct1858-'60	111 10 83		9 1 Milwaukee,	7 pe	r ct. coup	X Di	vers	50	
Do. 6 do1870-75	May, August,	nd 103 10	New Orleans,	6 pe	per ct. cp. R.R. r ct. cp. municip	XJa	Do n'y, July.	- 72 - 84	
Do. 5 do 1890-98	Novembe	r   90   9	5 Philadelphia	6 0	per et1876-'9	X Di	n'y, July.	50	3% 9
Albany 6 por et coup 1971.191 V P	eb'y, Augu an'y, July	50 7	Quincy, 8 p	er c	t, coup,1868	X Ja	n'y, July.	60	7
Alleghany, 6 per ct. coupX J	uarterly	98 9	Racine, 7 p	er c	r cent. coup	3 X 10.	Feb'y, At	90	
Albany, 6 per ct. coup. 1871-81 X F Alleghany, 6 per ct. coupX J Raltimore, 6 per ct1879-90	pril Octob	I amad	8 St. Louis, 6	per	ct. coup Long	ZX I	De,	82	2 8
Albany, 6 per ct. coup1871-'91 X. F. Alleghany, 6 per ct. coupX. J. Battimore, 6 per ctX. A. Brooklyn, 6 per ct. coupX. A. Brooklyn, 6 per ct. coup. Long X. J.	pril Octob an'y, July	100 10		3-					
Albany, 6 per ct. coup	pril Octob an'y, July Do. do.	100 10	Do. Sacramente	do.	p.ct. cp. 1862-7	4 X	Do	38	4
Albany, 6 per ct. coup	pril Octob an'y, July Do. do.	100 10	Do. Sacramento	do.	p.ct. cp. 1862-77	XX	Do	b_ 60	7
Albany, 6 per ct. coup	pril Octob an'y, July Do. do.	100 10	Do. Sacramento	do.	p.ct. cp. 1862-77	XX	Do	b_ 60	7 9
Albany, 6 per ct. CORD1871-781.X.;  Alleghany, 6 per ct. coup	pril Octob an'y, July Do. do.	100 10	Do. Sacramente S.Fr'cisco, 7 Do. 1 Do. 1 Do. 1 Do. 1 Do. 1	do. 0,10 p.e.c 0 p.	p.ct. cp. 1862-7	X Ma	Do y, Novem Do. do. n'y, July	b. 60 87	7 9

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atract from De Coppet & Co.'s Money Circular for the European Steamer of October 13th.

[TRANSLATED.]

NEW YORK, Tuesday, Oct. 12th, 1858.

The Stock market has been exceedingly active roughout the week which has elapsed since the ate of our last advices. The movement has been ccompanied by a moderate rise, in which all decriptions of securities have more or less particiated. The improvement may be attributed to ne continued favorable foreign news, and to the ndiminished supply of money—rates of interest, ontrary to the anticipations of capitalists, not aving advanced as the season has progressed. ouri 6s, which have risen  $2\frac{1}{2}$ , and of Tennessee 3s, which have risen  $1\frac{1}{2}$ . Virginia 6s have adranced  $\frac{1}{4}$ ; Louisiana 6s,  $\frac{1}{4}$ ; North Carolina 6s,  $\frac{1}{4}$ ; Indiana 5s,  $\frac{1}{4}$ ; and California 7s, new issue, 2 per cent. Sales of Ohio 6s, of 1860, at 102; do.; of 886, at 106a1064. The new Government Loan has been in better request, and has been sold as high as 104, which is the closing quotation. City and County bonds have been in moderate demand. The principal transactions have been in Louisville is, both water-works and railroad issues; in Memphis 6s, guaranteed by State of Tennessee; and in Brooklyn 6s-the last named at an advance of 11 per cent. There have also been sales of New York City 6s, due in 1887, at 103; and of Mason Co., 6 per cents., at 75. Railroad Bonds-There has been more movement in these than for some time past, accompanied by a general advance in prices. New York Central 6s have risen 1 per cent.; do. 7s, 2; Galena and Chicago, 1st mort., 1‡; do. 2d mort., 2‡; Hudson River, 1st mort., ‡; 14; do. 2d mort., 2; Hudson River, 1st mort., 4; do. 2d mort., 4; Illinois Central Constructions, ½; Harlem 1st mort., 1; Michigan Central 8 per cents., 1; Erie 3d mortgage, 2; do. 4th mortgage and unsecured Bonds, ½a1; Erie 2d mortgages bave declined ‡; Milwaukee and Mississippi 2d mortgage 10 per cents., 1, and Illinois Central Freeland Bonds, 2 per cent.; Michigan Southern 1st mortgage 7s have sold at 84; do. Sinking Fund northage is have sold at 34; do. Sinking rund at 71; Reading 6s, of 1886, at 72, and Little Miami 6s at 84085. Railroad Shares have been very active, and, with few exceptions, have advanced. The rise has been as follows: 1; per cent. on Chicago and Rock Island, 31 on Cleveland cent. on Unicago and Rock Island, 34 on Uteverand and Toledo, 14 on Erie, 4 on Galena and Chicago, 14 on Michigan Southern, 5 on Michigan Central, 1 on Milwaukee and Mississippi, 24 on New York Central, and 44 on Reading. The two last named have given rise to exceedingly large transactions; more than 30,000 shares of each having changed the company of the contractions of the contractions of the contraction of hands. Cleveland, Columbus and Cincinnati has been sold at from 90\(\frac{1}{4}a91\(\frac{1}{4}\); Harlem Preferred, from 23\(\alpha25\(\frac{1}{4}\); and Cleveland and Pittsburg at 7\(\frac{1}{4}\). Money continues superabundant. Short loans, 3\(\frac{1}{4}\) a5; indorsed paper, 4a7 per cent. per annum. Exchange on Europe is still scarce, and the rates have varied but little. Principal business on London, 109\$a110; Paris, 5.13\$a5 12}. DE COPPET & CO.

### Extract from Marie & Kanz's Money Circular for the European Steamer of Oct. 13th.

[TRANSLATED.]

New York, Tueday, Oct. 12th, 1858.
Our last advices were dated 4th inst. The recent advices from Europe, announcing the great accumulation of Specie in the banks of England and France, have forced upon our capitalists the conviction that the abundance of money now apparent at all the centres is not of a momentary character, as was generally supposed, but that, on the contrary, there is reason to look for its continuance for a long time to come. This impression has induced a lively demand for Stocks, and extending to the more or less speculative descriptions. The operators for a fall have found themselves compelled to close their contracts at a loss, and the operators for a rise have redoubled their purchases, seeing that the tendency continued upward. The advance is quite general—the only notable exception being Erie second mortgage and Panama and Pacific Mail. The two last fell

off, on a rumor, thus far wanting confirmation, of opening of an opposition line, via Nicaragua, The Erie second mortgages have declined, in con-sequence of a letter issued by the President, announcing the impossibility of redeeming the bonds on the 1st of March next, and offering to extend them five years. State Stocks have advanced with large sales, chiefly in Missouris, Tennessees, Californias and Virginias. Virginias have improved 3/4 per cent.; Missouris, 2½; Tennessees, 1½; California, new, 3½; Indiana 5s, 1½; North Carolina at 95; Louisiana, 93. The United States 5 per cents., 1874, have been sold at 104, and are now held at 104½. Ohio 6s, 1860, sales at 102, 1886, at 106. City and County Bonds—Demand slightly improved. We note sales of St. Louis City Municipal Loan and Railroad issues St. Louis County and County Bonds—St. Louis County and Railroad issues St. Louis County Railroad Railroad issues Railroad Ra cipal Loan and Railroad issues, St. Louis County 6s and 7s, Memphis City Guarantees, and New Orleans 6s, all at a slight improvement. Brooklyn 6s are in demand at an advance of ½ per cent.— Mason County 6s in better demand, at an advance. Railroad Bonds have improved generally with steady sales, exceeding \$400,000. Erie 2d mort. sales as low as 80a82; do., 4th mort., at 54½a55; do., 1875, 1 per cent. higher; do., 1871, ½; do., 1862, sales at 32, 1 per cent. higher; New York Central 6s, 1; do., 7s, 1876, sales at 98; Illinois Central Construction, 3/4 per cent. higher; Free-land Bonds sales at 90a87; Michigan Central 1st mort., sales at 1 per cent. advance; Northern Indiana, 1st mort., at 81%; Michigan Southern, 1st mort., 2 per cent. higher; do., Sinking Fund, 1; do., 2nd mort. sales at 60; Reading 6s, 1886, sales at 71a72; Galena and Chicago 1st and 2d mort. 1 per cent. higher; sales of Hannibal and St. Joseph's Bonds at 58; Milwankee and Mississippi 2d mort. at 74; Hudson River 1st mort. at 101 Railroad Shares—A great advance, excepting Pan-ama and Pacific Mail, with a large movement, exceeding 100,000 shares for the week. Erie has advanced 176. Reading, 376; New York Central 276; Michigan Central 516; Michigan Southern, 116; do., Preferred, 6; Toledo, 314; Rock Island 1½; do., Preferred, 6; Totedo, 5½; Moda Island, 1; Galena, ½; Cleveland, Columbus and Cincinnati, 1½; Milwaukee and Mississippi, 1; La Crosse, 56; Hudson River, 1½; Panama, ½ per lower; Pacific Mail, ¾; Chicago, Burlington and Quincy, 2 do.; Illinois Central steady at 79.—
Monay extremely easy. 3a5 per cent. on call; 3½ Money extremely easy, 3a5 per cent. on call;  $3\frac{1}{2}$  a5 $\frac{1}{2}$  for first-class paper. Exchanges—Fair a5\% for first-class paper. Exchanges—Fair amount of transaction. London, 109\%\a1101\%, weak; Paris, 5.13\%\a511\%, down.

### American Railroad Journal.

Saturday, October 16, 1858.

### Effects of Reciprocal Free Trade with Canada.

In 1854 the United States and Great Britain, after much difficulty, succeeded in effecting an arrangement by which the same freedom of trade in certain mentioned articles should exist between the United States, and Canada and the British North American Provinces, that has proved of such momentous advantage among the several States of the Union. By this arrangement, breadstuffs, provisions, lumber, coal and other articles, products of both countries, were to be allowed to pass free of duty. Many portions of the United Stated objected to the arrangement, on the ground that we produced a surplus of every article that we proposed to admit from Canada, while the latter produced scarcely anything else but the articles named, and so, of course, the reciprocity of the thing, must be all upon one side. We demanded and obtained, as an offset, the freedom of the Fisheries and of the navigation of the river St. Lawrence, and the arrangement was consummated. Thus a long vexed question about the fisheries was settled in our favor; a magnificent outlet to the ocean and to the navigation of the waters of

commerce of our Northern Lakes, and a large accession of carrying trade secured to our various lines of internal improvements. If Maine complained that her lumber interests were injured she was told of her advantages gained in the freedom of the fisheries and in cheap coals from the Colonies, and cheaper breadstuffs from Canada. If our wheat growing regions complained of competition from Canadian wheat in our markets, they were shown how egress had been obtained for their productions to the markets of the world without transhipment. In short, it was on the whole deemed a very fair and satisfactory arrangement so far as it went, and was looked upon as a mere commencement which would soon expand into an enlarged list including many articles of our more important manufactures.

A recent change in the office of Consul General has led to some modifications of our regulations and the exaction of fees which have given offence to those engaged largely in Canadian trade, and the consequence is quite a war of words as to the fairness of the original bargain and its profitableness as illustrated by its results. As usual in such disputes both parties claim to have been cheated, and while one threatens the abrogation of the treaty, the other says, "do it if you like, but if you do you will only bite your own nose of."

The Montreal Gazette, in a recent article, com plains of the "annoying and vexatious manner in which the United States Consular fees have been exacted," and demands a prompt remedy. After giving some figures from the Canadian official returns showing the value of our exports to Canada alone during the last five years to have been much larger than our imports thence, it suggests that the fisheries are of immense importance to a large portion of our people, and that some kind of tax might be imposed upon our vessels as a quid pro quo for our Consular fees. This failing, it is further suggested that Canada should give notice of intention to withdraw from the treaty unless the odious imposition of Consular fees is at once removed.

It strikes us that all such bravado is quite foreign to the purpose. The object of the treaty was the removal of restrictions from commercial intercourse and increased facility of transit. In this view, the imposition of the Consular fees and the exaction of Consular certificates is unquestionably an aggression upon the spirit of the compact, though perhaps not of its letter.

The effect of the withdrawal of restrictions has been to raise Canada to the fourth country, in value and rank among our customers,—England, France and Cuba only preceding her in 1857. The following figures show the value of our trade with Canada for five years, the exports being taken from the Canadian returns, and the imports from the United States Treasury returns.

Imports.	Exports.	Difference.
1853 \$5,275,116 1854 6,721,535 1855 *12,182,814 1856 17,488,197	\$11,818,144	\$6,543,028
1854 6.721.535	15,533,096	8,811,557
1855*12,182,314	20,828,668	8,646,354
1856 17.488,197	22,704,508	5,216,311
1857 18,291,834	20,224,648	1,932,814

\$59,959,000 \$91,109,064 \$31,150,064 Here is an increase of traffic in five years from seventeen to thirty-eight millions with Canada

the world was obtained for the vast and important alone, the aggregate for the same period being commerce of our Northern Lakes, and a large over one hundred and fifty millions with thirty-accession of carrying trade secured to our various lines of internal improvements. If Maine comsuch a commerce worth cherishing?

We will now present some figures, all of which are taken from U. S. Treasury reports to show the advancement of our trade under this treaty with Canada and the Colonies taken together.

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Years.	Foreign.	Domestic.	Total.
1852	\$3.853,919	\$6,665,097	\$10,509,016
1853	5,736,555	7,404,087	13,140,642
1854		15,204,144	24,566,860
	11,999,378	15,806,642	27,806,020
1856		22,714,697	29,029,349
1857		19,936,113	24,262,482
	\$41,593,589	\$87,720,780	\$129,314,369
		Increase	over 1852.
	IMPORTS.	IMPORTS.	EXPORTS.
1852	\$6,110,299		
1853	7,550,731	\$1,440,419	\$2,631,627
	8,827,560	2,817,261	14,057,844
	15,136,734	9,026,435	17,297,004
	21,310,421	15,200,122	18,520,333
	22,124,296	16,013,997	13,753,496

\$81,160,028 \$44,498,234 \$66,260,273
Comment as to the propriety of the continuance of such a traffic is uncalled for, and yet we can hardly forbear calling attention to the fact that this trade being composed principally of raw produce and domestic manufactures, gives more employment to our labor and transportation, than commerce of tenfold its value composed of rich foreign goods could afford. In this sense it is the most important trade we have with foreign powers.

Since the treaty came into operation (1854) a line of steamers between Quebec and Montreal and Liverpool has been established (1856) by which many foreign goods are imported direct to Canadian ports that otherwise would have to be purchased of us. This may account for the falling off of our sales of foreign goods since 1855, from eleven to four millions. The establishment of this direct trade with Europe by steamer from Canadian ports, and the opening of the Grand Trunk lines of railway, render Canada less dependent upon our markets and our routes of internal improvement than formerly; and if we choose to return to our former condition and hamper our commerce with her with such restrictions as to force it into new channels, it may be very questionable whether we should not be the largest sufferers. If this trade were not profitable it is hardly conceivable that we should have continued it so long and prosperously. It seems to us that all this talk about restrictions and counter-restrictions and threats of abrogation of existing commercial regulations, and retaliatory charges upon our fishing vessels, savors altogether too much of schoolboy bravado to be indulged in by two of the foremost commercial countries of the earth.

### New York and Eric Railroad.

At the annual meeting of the stockholders of this road, held on the 12th inst., the following gentlemen were re-elected directors for the ensuing year, viz:—Charles Moran, Samuel Marsh, Cornelius Smith, Daniel Drew, John Arnot, Ambrose S. Murray, D. A. Cushman, William B. Skidmore, Ralph Mead, Dudley S. Gregory, Edwin J. Brown, Hermann Gelpcke, George Bruce, Robert H. Berdell, Samuel H. P. Hall, Edward K. Alburtis, Geo. T. Cobb.

<sup>\*</sup> First year of recipacity.

#### Eric and Central Troubles.

It is reported that these two companies are again at loggerheads about infringements of the recent compact. The umpire is likely to be obliged to hold open court for the settlement of their numercus complaints. This is no more than we expected. When people cannot attend to their own business satisfactorily, it is either because one or both parties are dishonest or incompetent for the positions they occupy. If managers of railways are incompetent to ascertain, after years of experiment to aid them, at what prices they can do business upon their road and pay fair profits, the quicker they vacate their offices the better. Rates of passage and freight should be based upon such premises and upon no other. This with good, careful, prudent management, and extensive and judicious advertising will secure to any road its proper share of traffic.

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Two freight trains on the Ohio and Mississippi railroad came into collision recently, which resulted in the death of the conductor, engineman, fireman and two brakesmen. The accident occurred about 46 miles east of Vincennes. The westward train was running at the rate of 20 miles an hour, the other much less. The trains met upon the McCallum Bridge, about four miles east of Shoal's station. It is a remarkable fact that the bridge sustained this tremendous collision, and the subsequent weight of engines and cars piled three and four feet deep without deflecting an inch from a straight line, and without injury in any part.

#### Boston and Maine Railroad.

There is at least one railroad in the United States which has not fallen short of its duties to its bondholders and creditors. The Boston and Maine railroad, in September last, paid off their last instalment of indebtedness, \$50,000, although it did not come due until August 1, 3859, and is now entirely free from debt and likely, under proper management, to remain so forever. It has always met its engagements promptly, and has never failed to pay a dividend since it was opened, in 1842. It has always been kept in good order, and managed so as to secure the good will and profit of all connected with it. Its highest dividend was 9 per cent. in 1847, and its lowest 5 per cent. in 1850. Its average rate has been a trifle short of 7 per cent. In these days of disappointed hopes and ruined expectations, this is something to contemplate with satisfaction, even by those who do not share in its prosperity.

### Memphis and Ohio Railroad.

At a meeting of the stockholders of this Company, held in Memphis on the 4th inst., the following gentlemen were re-elected Directors for the ensuing year: R. Topp, W. B. Miller, S. P. Walker, R. C. Brinkley, Q. C. Atkinson, A. Woodruff, F. Titus, of Memphis; John Pope and T. Crenshaw, of Shelby county; G. T. Taylor, of Tipton; Joseph B. Stanton and W. H. Loving, of Haywood, and B. C. Brown, of Henry County. The State Directors are Doctor Sol. Green and H. Tilghman, of this city.

At a subsequent meeting of the Directors, they ananimously elected R. Topp, President; J. T. Trezevant, Secretary and Treasurer; W. D. Pickett, Chief Engiueer; and H. Coffin, Superintendent. Q. C. Atkinson, Esq., having resigned his \$340,299 09.

position as Director, William Jordan, Esq., of Gib- Northern Pacific Railroad.--Navigability of son County, was elected in his place.

### Fair of the Maryland Institute.

The annual exhibition of this very popular Institute is now being held at Baltimore. We learn that it has been eminently successful as far as regards the number of, and the purchase of regular membership tickets. The receipts are larger, according to the statement of J. S. Selby, Esq., the actuary, than during the period of any previous exhibition, and it is estimated that this will continue to be the case during the continuance of the fair. Among the articles on exhibition is a large case filled with photographic cameras, and apparatus for the use of amateurs; also stereoscopes and views in large varieties, with other similar articles of value, from the well known mathematical and optical instrument manufactory of Messrs. F. W. & R. KING, of that city. The Fair is near its close, being in its second week. It is to be followed by the Agricultural Society's Exhibition. The Maryland Institute is the pride of Baltimore and is well sustained by the prominent citizens of that place.

### Overland Mail to the Pacific.

The arrival, on Saturday last, at St. Louis, from San Francisco, of the Overland California Mail, is is another epoch in our country's history. Much credit is due Messrs, Butterfield & Co., the enterprising contractors, for their promptitude in the accomplishment of this great undertaking: and to the Administration, for the liberality and zeal with which it has encouraged the Company. much praise should be awarded. The Company have more than 200 stations on the road. We have before us the journal kept by Mr. BAILEY, an agent of the Post Office Department, giving the route taken, and also the distances between the different points, which we shall publish next week. The total distance, as given by Mr. Bailey, is 2,765 miles-time, 24 days, 20 hours, and 35 minutes: or, allowing 2 hours and 9 minutes for difference in longitude, leaves 24 days, 18 hours and 26 minutes. Mr. Bailey says that at least four days' time were lost on the trip, from causes which are not likely to occur again.

### Finances of Virginia.

During the fiscal year ending the 30th ult., the receipts of the Treasurer of the State of Virginia, amounted (including a balance from previous year, of \$379,971 92) to the sum of \$9,518,907 98; and the disbursements to \$9,364,900 01-leaving a balance of \$154,007 97; of which, \$19,878 04 was to the credit of the State; \$44,729 84 to the credit of the Literary Fund; \$68,561 56 to the credit of the Sinking Fund; and \$20,838 53 to the credit of the Board of Public Works. The receipts on account of the latter during the year. (including balance from previous year of \$14,719 54,) was \$1,894,963 76, and the disbursements, \$1.874.125 23. The receipts on account of the State (including previous balance of \$37,124 81) were \$4.592,985 04, and the disbursements, \$4,-573,107. On account of the Sinking Fund, (including balance of \$291,931 83,) \$2,645,930 25, in detail of the obstructions and facilities of the and the disbursements, \$2,577,368 69. On account of the Literary Fund, (including balance of \$36,195 74,) \$385,028 93, and the disbursements,

### the Columbia River.

In our issue of August 7th, we presented some facts in regard to the navigability of the Missouri river. We now propose to redeem the promise then made, of presenting similar facts in relation to the navigability of the great connecting and interlocking river on the western slope of the continent, the Columbia.

The Columbia drains a vast extent of country from the Rocky range to the Pacific, situate between the parallels of 42° and 52° 80'. The main Columbia takes its rise in about parallel 50°, flows to the northward and making a large circular bend to the westward in about parallel 52° 30', finally takes a nearly due south course, till it reaches the parallel of 46° when it passes to the ocean in a nearly due west course, its mouth being in latitude

Its principal tributaries are Lewis or Snake river, which flows through the southern portion of the country drained by the system of waters of which the Columbia is the main stem, and whose valley has furnished one of the great routes of travel from the Mississippi valley to the Pacific and which empties into the main river about latitude 46° 15'; and Clark's Fork which drains the central portion, and empties into the Columbia about parallel 49° 1'. Both these rivers have reaches of navigable water and deserve consideration in connection with the Columbia itself.

Besides these tributaries, are the Snokane which flows into the Columbia from the east and the Yakima, Wenatschapan and other streams which flow from the west. As these streams are not navigable, even in reaches of any length, except small portions of the upper waters of the Spokane, known as the Coeur d'Alene river and lake, further allusions to them will not be called for, except in reference to their facilities for rafting lumber in high water.

The Kootenay river, however, which has its rise in the Rocky Mountains, flows in a course nearly parallel to that of Clark's Fork and empties into the Columbia about 20 miles above the mouth of Clark's Fork, has, undoubtedly, considerable reaches of navigable waters; but as it is out of direction in regard to the streams draining the eastern slope of the Rocky Mountains, and is in connection with no overland route, it will not be considered further in this paper.

The main Columbia has for many years been navigated by boats and canoes from the Boat Encampment, near its source in the Rocky Mountains to the ocean, and reaches in Clark's Fork and the Snake river have been navigated in the same way. The navigation is obstructed by several rapids and falls, requiring portages even for canoes in the most favorable stage of water, and of other rapids requiring portages at low water. The journals of the officers and employees of the Hudson's Bay Company give much interesting information in regard to the difficulties and the danger and labor required to overcome them.

Our present purpose, however, is to consider its navigability for steamers, and we shall give facts river as far as the Kettle Falls near Colville. We will commence at its mouth.

From the Columbia entrance up to the Cascades, a distance of 160 miles, the river is without ob-

struction, and can be navigated by large steamers Sea-going steamers can ascend as far as Vancouver, 115 miles from its mouth. The Indians say that at the Cascades the river used to be perfectly free; but the gradual encroachments on its precipitous banks at length gave rise to a land slide, which falling into the river, made a sort of natural dam, which is evidently the case from the appearance of the shore. There is a portage around the Cascades of one mile and a-half. The next obstruction is at the Dalles, 205 miles from its mouth-At this place, the Columbia makes a bend like a horse shoe towards the South and runs through a basaltic trough with walls about twenty feet in height and two hundred yards apart, the current is very rapid, but is not rough. For canoes, a portage of eight hundred paces avoids this obstruction. For steamers, canaling for a considerably longer distance would be required. In the absence of careful surveys, we have not the means for stating the distance along which improvements must be made to furnish continuous navigation. or in the absence of such improvements the shortest land portage ch would be required. The portage now in use is from the Dalles to the mouth of the Dechutes, a distance of ten miles. But this can unquestionably be very much reduced.

For the past two seasons, the army supplies for the Walla Walla post have been transported in sailing vessels from the mouth of the Dechutes river to old Fort Walla Walla and it is known that from that point to Priest's Rapids no obstruction exists. Snake river which flows into the Columbia forty-eight miles below Priest's Rapids is also navigable for a considerable distance, certainly to the mouth of the Pelouse 691/4 miles from its mouth and probably to its junction with the Clearwater. Lewis and Clark took canoes on the Kooskooskia, 59 miles above its junction with Snake river, and descended the Kooskooskia and the Snake to the junction of the latter with the Columbia, from the 7th to the 10th day of October, 1805, the river being at its lowest stage. Their course on the Kooskooskia was 59 miles, and on the Snake 1391/2 miles. Comparing the difficulties they met with on the Snake, with those they encountered on the Columbia, from the mouth of the Snake to the Dalles, they seem to be all of the same general character, leaving but little or no doubt of the navigability of the Snake for steamers to the mouth of the Kooskooskia. Snake river is probably navigable for steamers 60 miles above the mouth of the Kooskooskia.

Besides Priest's Rapids, where canaling would be required, or a land postage of some three miles, the other obstructions are Buckland's Rapids sixty-six miles above Priest's Rapids, Ross' Rapids, near the mouth of the Met-how River, and Kettle Falls. Ross' Rapids would not be an obstruction to steamers, but both at Buckland's Rapids and at Kettle Falls, locks and canals would be required. and especially at the Kettle Falls, where the Columbia pitches over a ledge of rocks making a fall of about fifteen feet perpendicular.

To Kettle Falls, a distance of about 725 miles from the ocean, the Columbia, in order to make continuous navigation, will therefore require locks and canaling at the Cascades, at the Dalles, at Priest's Rapids, and at Buckland's Rapids, giving the following reaches of navigable waters, viz.:

ı	Miles.
1	Entrance to Cascades
ı	Cascades to Dalles
1	Cascades to Dalles
	Priest's Rapids to Buckland's Rapids 66
	Buckland's Rapids to Kettle Falls 274

It will be well to state that at high water steamers could probably ascend the whole distance from the Dalles to Kettle Falls, say from the middle of May to the middle of July.

Steamers have been running regularly in the two first mentioned reaches for some years, and a steamer was, at the last advices, being about put on the third reach. The business has increased quite rapidly-so much so that for three years there have been from Portland and Vancouver two lines of steamers to the Dalles, and the rates of freights and passages have become greatly re-

The annual freshet of the Columbia is caused by the melting of the snow in the Alpine regions of the Rocky, Bitter Root, and Cascade Mountains; and, as a consequence, takes place in the warm months of spring and early summer, commencing about the middle of April, and attaining its greatest height usually, and very regularly, by the fifteenth of June, at which time all the rapids from the Dalles to the Kettle Falls near Colville, are, so to speak, submerged.

The Clark's Fork empties into the Columbia by a fall of fifteen feet in height, and a hundred and fifty yards in width; at the distance of a quarter of a mile from the main stream it passes through a deep gorge in the range, where it has a further fall of three feet. From this point to the Mission of St. Ignatius, (seventy miles by the river,) it has never been explored. It is supposed to be navigable. The Indians are too indolent to travel for the sake of exploring, or for pastime; and as their hunting grounds lie in another direction, they have never made the attempt.

Dr. George Luckley, surgeon and naturalist for a Northern Pacific Railroad, who passed down from Fort Owen on the Bitter Root River, to its junction with the Flathead or Clark's Fork, and thence through Lake Pend d' Oreille to the Mission of St. Ignatius, above referred to, mentions in that distance only one portage of thirteen hundred paces, at the Cabinet, a few miles south of Lake Pend d' Oreille. He traversed this river in October and November, a period of the year when the water is at its lowest stage.

Dr. Luckley says in his official report of the exploration of this river to Gov. Stevens, that "at a point about sixty miles above the Pend d' Oreille Mission (of St. Ignatius) is the Pend d' Oreille or Kalispelm Lake, formed by a dilation of the river; it is a beautiful sheet of water about forty-five miles in length. Below it the river is sluggish and wide for some twenty-six miles, where rapids are again encountered during low water. From a point nine miles above the lake to these rapids, a distance of about eighty miles, steamboats drawing from twenty to twenty-four inches could readily ascend. In high water, of course, the distance would be lengthened. There would be but one obstacle between the Cabinet (twenty-five miles above Lake Pend d' Oreille) and a point ten trail, is 480 miles. miles below the Mission, a distance of one hundred and forty miles. The obstacle alluded to is where the river is divided by rocky islands, with a fall of six and a half feet on each side. At this corresponding streams on the west, we will con-

point a lock might readily be constructed. The Hudson Bay Company's large freight-boats are in the habit of ascending from the lower end of Pend d' Oreille Lake to the Horse Plains, a distance of about one hundred and thirty-five miles. This involves two portages. I have dwelt on these particulars, knowing how important they will prove in relation to questions of railroad construction, and the transportation of supplies. From the Horse Plains before spoken of the river, so far as I have examined it, would be excellent for rafting purposes. Timber, in this manner, could be transported a great distance. Above this, to the St. Mary's village, I cannot give a decided opinion in its favor, but I am inclined to the opinion that rafts might be run; at any rate, logs could be readily driven down the current from an immense distance."

Dr. Luckley also observes as follows in regard to the main Columbia: "On the Columbia, between the mouths of the Snake and Dechutes rivers, a distanse of about three hundred and fifty miles, there are but three obstacles to navigation for steamboats drawing from twenty to thirty inches. The principal of these are the Priest's and Buckland's Rapids. These might probably be locked, or so modified by art as to render them passable by steamboat or other craft."

Although wood does not grow on the immediate banks of the Columbia, from the Dalles to the mouth of the Wenatschapan, there will be no difficulty in rafting it down the river for the use of steamers; and indeed a good supply could be picked up from the drift which is found along the shore on the subsidence of the annual freshet .-Above the mouth of the Wenatschapan, wood grows in large quantities; and the main Columbia is excellent for rafting purposes. Wood could also be rafted down the main Yakima to the Columbia during the season of the spring freshets.

Considering, therefore, that steamers have been for years running on the Columbia, as far as the Dalles, that one is about being put on from the Dalles to Fort Walla Walla, and that to get continuous navigation thence to Colville, improvements have only to be made at three points, viz: Priests's Rapids, Buckland's Rapids and Kettle Falls-the Columbia is entitled to the distinction of being a river navigable for steamers; and with the portions of Snake river and Clark's Fork, also navigable for steamers, we have a system of waters on our western water-shed having a comparatively short and easy land connection with the Missouri,

Looking to Snake river, we have, from Fort Benton, assumed as the head of steamboat navigation on the Missouri, (although steamers can ascend some miles farther, to the mouth of the Pelouse by the Coeur d'Alene trail,) a land transportation of 450 miles.

Looking to Clark's Fork and to Colville, we have from Fort Benton to the Horse Plain, a distance by a cut-off from the Blackfoot Fork to the Jocko river, a distance of 2701/2 miles, and after passing down Clark's Fork, we have another land distance to Colville of sixty miles. The distance, however, from Fort Benton to Colville, via the Coeur d'Alene

Reserving, however, to a future occasion, a description of the several routes from the Missour and the two branches of the Saskatchawan to the

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clude this article by some remarks on the next considerable stream of the North-west, to wit Fraser River.

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Fraser river is navigable to Fort Yale-a distance of 120 miles. Above this point, its navigation is extremely difficult, even for canoes; and no use whatever can be made of it for steamers. De Mofras' description of Fraser river agrees with that of all travellers in that country, and we give it in full.

"It takes its rise on the western slope of the Rocky Mountains, near the 55th degree, near the source of the Canoe river, the first important tributary of the Columbia. One of the principal sources of the Fraser is only about a thousand feet from the Unjiga, or Peace river, which is on the east of the mountains. Fraser river has a length of about one hundred and thirty leagues, almost parallel to that of the Oregon (Columbia); and receives nearly all the waters of New Caledonia (British Co-lumbia)—the rivers Stuart, Chilcotin, Pinklitsa,

Thompson and Quesnel.

In 1828, Sir George Simpson, Governor of the
Territories of the Hudson's Bay Company, coming Territories of the Hudson's Bay Company, coming from Canada by way of the lakes, descended the whole of Fraser river; but found it full of dangerous rocks, rapids and high cascades, and consequently unfit for navigation. There is a bar at its mouth which can be crossed by vessels drawing twelve or fourteen feet of water; after which they can ascend some leagues to Fort Langley, built upon the left bank of the river about twenty-five miles from the sea. The soil on the lower part of Fraser river is fit for cultivation; has fine pastures and thick forests of birch, poplar, cedar, pines and other evergreens."

Thompson's river, one of the principal tributaries of Fraser river, is also worthless for purposes of navigation.

### New York City Finances.

The semi-annual report of the Comptroller, extending from the 1st July, 1857, to the 30th June, 1858, was recently presented to the Board of Aldermen. The following is a summary of the annual taxation since 1850:

Tax levy for	1850 \$3,230,180	47
Do.	1851 2,924,384	99
Do.	1852 3,378,335	08
Do.	1853 5,069,650	05
Do.	1854 4,841,255	51
Do.	1855 5,843,822	
Do.	1856 7,075,425	72
Do.	1857 8,066,566	52
Do.	1858 8,621,091	31

The total amount of the present city debt, not provided for, is \$11,047,052.

The proceeds of the Brick Church property, accruing to the city, are stated to have been \$67,500, which are applied to the sinking fund.

The following is the valuation of real and per-

\$268 346 206

-	o. 185	7	352	2,343,033
	Increase of	1858	\$16	,003,263
	1 tata Car		6169	947 004

Decrease of 1858......\$5,368,455

The gross amount of expenditures and receipts, during the year, are footed at \$14,038,750 17.

The report touches upon all matters of interest in regard to the finances of the city, and narrates the present position of such affairs. About most of these, previous statements have been, from time to time, published, embodying most of the information now given.

### The Washington Aqueduct.

Captain Meigs has contracted with the Warsaw Foundry and Machine Company, of Phillipsburg, N.J., for a large portion of the pipe for the Washington Aqueduct.

#### General Statistics of West Indies.

Exhibiting the area, population, commerce, revenue, etc. of each government for the year 1855. Compiled from official and other authentic sources by RICHARD S. FISHER, Editor of Colton's Atlases, etc.

I. AREA AND POPULATION.

9	Governments.	Area	Popu-	Pop. to
t		sq. m.	lation.	sq. m.
1	Hayti Empire		572,000	56,7
	DominicaRepublic		136,700	
9	Cuba Span. Col		1,449,462	30.6
9	Porto Rico . do.	3,865	562,134	
	Bermudas British Col.	20	11,092	554.6
8	Bahamas do.	5,094	27,519	5.4
1	Turk's Isl'd* do.	430	4,428	10.3
f		6,510	378,193	
t		2,020	68,645	
)	Tobago do.	144	13,208	91.7
	Granada‡ do.	155	32,671	210.4
_	St. Vincent . do.	132	30,128	228.3
,	Barbadoes do.	166	135,939	818.9
,	St. Lucia do.	296	24,516	82.8
9	Dominica do.	274	22,061	80.5
7	3.0	47	7,653	162.9
3	Antigua do.	108	37,757	349.6
	St.Christ'ph'r do.	68	23,177	340.8
-	Nevis do.	21	9,601	457.2
3	Barbuda   do.	72	1,707	23.7
3	Anguilla do.	34	3,052	90.9
7	Virgin Isl'ds do.	92	6,689	72.7
t	Guadal'pe** French Col.	631	154,975	245.6
	Martinique. do.	382	121,478	318.0
f	Curacoatt Dutch Col.	244	22,063	90.4
3	St. Eustatius do.	97	1,932	19.9
l	St. Martin‡‡			
	and Saba. do.	28	4,502	160.8
	St. Thomas . Danish Col.	27	13,666	506.1
	Santa Cruz. do.	78	23,729	304.2
3	St. John do.	22	2,228	101.3
	St.Bartholom. Swed. Col.	25	9,000	360.0
		20.080	0.044.005	

Total......96,050 3,911,905 40,7

II. COMMERCE. Total Commerce. Governments. Imports. \$5,927,456 1,391,266 31,394,578 Porto Rico. . . . . . . . 5,761,975 6,073,870 Bermudas .... 167,816
Bahamas .... 347,510
Turk's Island .... 347,510 601,939 2,017,609 2,795,334 Tobago . . . . . . . . . . . . 248,769 261,534 Grenada .... 691.986 562 051 

 Grenada
 883,984

 St.Vincent
 883,984

 Barbadoes
 4,729,249

 276,932

 728,863 1,886,792 St. Lucia..... Dominica .... 390,773 262,541 Montserrat. 72,574 Antigua 1,078,249 St. Christopher 665,444 44,814 855,382 539,826 104,667 Virgin Islands .... 28.734 22 517 Guadaloupe ..... 5,097,687 5.113,926 

 Martinique
 4,126,792

 Dutch West Indies
 713,651

 Danish do.
 4,987,315

 Swedish do.
 217,151

 3,981,715 631,496 257,311

Including the Caicos Islands.

Including the Cayman Islands. Including the Grenadines.

Total......\$78,045,761 \$71,251,635

III.	COMME	RCE WI		STATES.
~	V3.581.5	S. Trees	Exports	Importa
	nments		rom U. S.	into U. S.
Haiti		8	2,081,338	\$2,474,487
Dominica			163,714	141,038
Cuba			8,004 582	18,625,339
Porto Rice			1,183,518	2,475,998
British We	est Indie	98	5,021,143	1,518,670
French	do.		409,701	44,434
Dutch	do		240,256	438,841
Danish	do.			225,308
Swedish	do.		69,247	82,229

Total\$2	5,966,344	\$18,061,963
IV. ANNUAL REVENU	E AND EXP	ENDITURES.
Governments.	Revenue.	Expenditures.
Haiti	\$1,136,800	\$1,308,040
Dominica	374,516	291,116
Cuba*	13,447,584	*13,447,584
Perto Rico†	2,500,000	+2,500,000
Bermudas	79,253	81,941
Bahamas	119,847	131,294
Jamaica		1,057,193
Trinidad	508,237	505,083
Tobago	40,070	40,070
Grenada	105,438	90,221
St. Vincent	101,237	104,266
Barbadoes	389,389	358,401
St. Lucia	79,652	81,578
Dominica	53,272	64,437
Montserrat	16,096	15,941
Antigua	127,892	122,035
St. Christopher	106,434	106,434
Nevis	21.262	21,102
Anguilla	With St.	Christopher.
Virgin Islands	11,734	11,734
Guadaloupet	464,925	464,925
Martiniquet	364,434	363,434
Dutch West Indies	96,196	186,821
Danish do	286,782	286,782
Swedish† do	†22,600	+22,600
Total \$	21.032.674	\$21,665,032

\* Including surpluses sent to Spain.

† Estimated.

V. CAPITALS AND PRESE Popul.	NT GOVERNORS.
Governments. Capituls, of Capitals	Present Governors.
Haiti	
CubaHabana126,000	Jose de la Concha.
Porto Rico S Juan Bautista 16,000	Gen. Campazana, C.G
Bermudas St. Georgetown 2 000	
Bahamas Nassau 8,000	
Turk's Island	W. R. Inglis, Pres. of Counc l.
Jamaica Spanishtown 6,000	C.H Darling, Gov Gen.
Trinidad Puert, d'Espana 12,000	Robert W. Keat, Gov.
Tobago Scarb no 1,500	J. V. Drysda'e, Lt. Gov.
Grenada St. Georgetown . 2,000	C. Kortright, Lt. Gov.
St. VincentKingstown 5,000	E. T. Eyre, Lt. Gov.
Barbadoes Bridgetown 22 000	Francis Hincks Gov.
St. Lucia Castries 3,000	T. Brien, Lt. Gov.
Dominica Roseau 5,000	H. St. G. Orr, Lt. Gov.
MontserratPlymouth 1,500	E. Rushworth, Pres's.
Antigua St. John's 15 000	R B. Hamilton, Gov.
St. Christoph, Basse-Terre 8,000	H.G. R. Robinson, Lt. G.
Nevis Charlestown 2,000	C. A. H Rumbold, Pres. of Council.
Virgin Isl'ds, Tortola 3,000	T. Price, Pres of Counc.
Guadaloupe_Basse-Terre 4,000	P. V. Touchard, Gov.
MartiniqueSt. Pierre 6,000	Count de F. de Soucy,
Dutch IsPds, Wilhelmstadt 8,000	R F. v. Lansberge, Gov.
Danish do, Christianatadt 6 000 St. Barthum, La Carenage 1,000	Jean F. Schlegel, Gov.
and a superior alone	

### Wisconsin Central Railroad.

John E. Holmes has been elected President of the above road. The Jeffersonian says that now, from all appearances, the joint efforts of the com-pany are about to be crowned with success, as a goodly portion of the road will be soon completed and in running order to Jefferson.

# Including the Grenadines.

| Belongs to the Codrington family, being the only British Colony remaining in private hands.

\*\* Including its dependencies Marie-Galante,
Desirade and the north part of St. Martin.

† Including Bonaire, Aruba, etc.

‡ South part of St. Martin only belongs to Holland. The whole island has an area of 33 square miles and 6,612 inhabitants.

\*\* Including the Grenadines.

\*\* Land Grants Approved.

The Interior Department has approved to Florida, under the Congressional grant of May, 1356, over 183,000 acres of land in aid of the construction of the Florida and Atlantic and the Gulf Central Railroad, connecting Jacksonville and Alligator, sixty miles in length,

### New York and Eric Railroad

OFFICE NEW YORK AND ERIE R. R. Co., Sept. 28, 1858. NEW YORK, Sept. 28, 1858.

GENTLEMEN: - In answer to your inquiries as to the intentions of this Company in regard to the Second Mortgage Bonds which mature on the 1st March next, I beg to say that in the present state of the Company's finances and the general discredit of railroad securities, to reimburse them on that day is impossible. It appears to me, how-ever, that the extraordinary security which these bonds offer to capitalists will render it no hardship to the holders to extend for a a short timefrom five to ten years—the reimbursement of the principal, on condition that this company issue new sheets of coupons, and punctually meet them as they mature semi-annually.

The entire issue of 1st Mort. Bonds is.. \$3,000,000 And of 2nd Morgage Bonds is. . . . . . 4,000,000

Together ......\$7,000,000 secured by property which has cost, and, in my opinion, to day is well worth \$38,000,000, say over 51/2 times the amount of the two mortgages. the present state of the money market of the world, can a safer investment be found at par-paying 7 per cent per annum?

The Company, as you are well aware, has in reserve \$4,000,000 of Third Mortgage Bonds, pledged for the redemption of the Second Mortgage Bonds, after which redemption the Third Mortgage 1 e-comes Second Mortgage. The sacrifice which the negotiation of these Third Mortgage Bonds at present would entail on this company would be perfectly ruinous in its present embarrassed financial position, whereas, in my opinion, within the period named above, it will be easy for the company to extricate itself from all its difficulties, re-establish its credit, and thereby enable it to negotiate the Third Mortgage Bonds. To enable you to judge of the present and future financial position of the Company, I annex the following comparative statements of the floating debt of the New York and Erie Railroad Company :

Bills payable	Sept. 30, 1857, 1 982 482	1858.	1858.
Accounts payable, in- clud'g coupons past due, less cash and accounts receivable Coup's past due, and accounts payable			
and accts. receivable, not being made up			378,47

Total ......\$2,325,416 1,595,939 1,123,934 At no previous period have the unadjusted claims against this company been so small as at present. Supplies of every kind are now invariably purchased for cash, and claims properly adjusted and liquidated.

On the 1st August the Company had issued \$2,-914,000 of the Fourth Mortgage Bonds, leaving therefore \$3,086,000 yet to be issued, which will produce \$1,543,000 in cash or in indebtedness of the Company, so that after paying every dullar of floating debt there would remain in the treasury in cash from the proceeds of the Fourth Mortgage Bonds \$419,000 applicable to the Tunnel and Long Dock, which is about the amount estimated to be required to bring that valuable addition to the property of the Company into use. Whenever the traffic of the Company is transferred to the Long Dock, it will not be long before \$2,000 per lot for the entire property will be considered a very moderate estimate, what would represent \$6,000,000, and then the surplus land, not needed by the company, could be probably sold for as much as the entire property and improvements will have cost.

The traffic of the Company for the present fiscal year ending Sept. 30, will not exceed \$5,250,000, iu consequence of the commercial crisis and the competition between the four great lines, which fortunately is now terminated. Two years ago the gross receipts were \$6,850,000. Whenever the

traffic of the country resumes to ordinary activity with fair rates of transportation, the revenue of the Company will undoubtedly reach again the above figures, and when the Long Dock can be brought into use, it must greatly exceed them. Had the Company this year been in receipt of the above amount, all its floating debt would now be liquidated, and the net revenue would hereafter be ample to provide for the interest on the entire debt, as well as the payments to the sinking fund, as will be seen by the following statement:

they can be reduced much below this as the road is in thorough condition, which it will be before long. The average expenses from 1852 to 1857, inclusive, have been 561/2 per cent. the receipts varying from \$3,538,000 to \$6,350,000)..... 3,810,000

Interest 7 per cent. on \$28,-000,000 amo't of debt after the entire issue of 4th Mtg. \$1,960,000 Sinking fund..... 420,000-2,380,000

\$2,540,000

Surplus ..... \$160,000 After the experience of the past twelve months, am more convinced than ever that no scheme to extricate the company from its financial embarrassments could be devised which would offer the same advantages to all the interests involved, as the one adopted by the company. To the holders of unsecured bonds it affords an opportunity to exchange them into Mortgage Bonds, offering perfect security even in the event of Company's property passing into the hands of receivers. To capitalists it offers at present rates of unsecured bonds. as undoubted investment yielding about 12 per cent. per annum, beside the certainty that as soon as the Company is extricated from its embarrass-ments, the market value of the investment will greatly add to their capital. To the company it insures relief without sacrifice, which is indispensable to its future welfare.

The road bed and equipment have been greatly improved during the past twelve months, and within another year will compare favorably with those of any other road in the United States, and the operating expense will be greatly reduced. If the balance of the Fourth Mortgage Bonds be at once taken, and the Second Mortgage Bonds extended for five or ten years, I have no doubt what-ever as to the future prosperity of this company, as long as managed with economy and intelligence.

Believe me, gentlemen, respectfully yours, CHARLES MORAN, President.

#### Railroad Earnings.

It is stated that the Hudson River Railroad, for the year ending September 30th, earned in gross about \$1,640,000, as against \$1,901,000 the previous year. The road was operated at an expense less by \$312,000 than the year before.

The following is a comparative statement of earnings of the Michigan Southern and Northern Indiana Railroad for July, August and September, in 1857 and 1858:

Passengers .....\$347,361 84

1858.

Mails, Express, etc. 23,575 98 63,234	
Total\$585,823 12 \$574,650	
Decrease in gross earnings \$11,173	03
The expenditures of the same periods were:-	_
1857\$453,434	71
1959 971 999	01

Showing a decrease in expenditures of \$181,545 87 -Leaving for net earnings for three months \$302,-761 25, or at the rate of about 7 per cent. on the entire debt and stock,

The business of the Illinois Central Railroad, for

1858

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eptember,	was as follows:	dunida
	Land Department.	
cres Const	truction Lands	of Krimer

Acres Interest Fund Lands	,648.28	ior	\$20,979	73
sold	$160.00 \\ 671.78$		3,836 11,236	

1	Total sales	during	the			
0	month To which add	Town	2,480.06 Lot sales	for	\$36,052 408	67 95
						_

Total of all .... \$36,461 62 Acres sold since 1st Jan'y, 1858..... 43,880.53 for \$595,884 99 Acres sold prev'sly,1,200,933.78 for 15,311,440 40

Total.....1,244,814.31 for \$15,907,825 39 Construction Bonds canceled in September, 

\$805,500 Free Land Bonds canceled in 

- 107,000 Total Bonds canceled up to Sept. 30th,

Traffic Department. Do. mails .... 6,358 83

rent of road .... Do. other sources ..... 1,767 45 Total receipts in September, 1858 ... \$212,149 69
Do. do. 1857 ... 238,925 88

Do.

Total receipts since 1st Jan'y, 1858. \$1,441,921 68 Total receipts in correspond'g period,

of 1857 ..... 1,717,727 48 The September earnings of the Rock Island railroad were in-

1857 .....\$197,011 1858 ..... 89,100 

The earnings of the Cleveland and Toledo Rail-

The earnings of the Norwich and Worcester railroad for the month of September, 1857 and

1858, were: 1857. 1858. \$15,352 Passengers .... \$17,367 16,435 Freight .... 14,447 \$31,837 \$32,314

Decrease ..... \$477 The following are the receipts on the Morris \$246,461 57 Canal for the week and season to 25th ult., as compared with corresponding time last year: Total to September 25, 1857 .....\$226,757 92 Week ending October 3, 1857 ..... 7,547 69

\$234,305 61 Total to Sept. 24, 1858...\$190,860 24

Week ending Oct. 2, '58 .. 8,438 67 199,298 91

Decrease in 1858......\$35,000 70 The earnings of the Terre Haute, Alton and St. Louis Railroad Company, for the month of September, were :-

1858 .....\$79,458 82 1857 ..... 78,991 67 Increase ......\$461 65 The earnings of the Galena and Chicago Union Railroad Company, for September, as compared with last year, are as follows: 1857. 1858. Freight ...\$170,021 62 \$106,924 33 \$63,096 79 Passengers 75,123 35 49,023 51 26,099 84 Mails, etc.. 209 88 5,209 48 5.000 00 Total.. \$250,354 45 \$160,948 34 \$80,406 11 Corrected earnings for the previous month, \$122,-The revenue of the Baltimore and Ohio Railroad, for September, was as follows: Freight. Total. Pass'grs. Main Stem ... \$71,335.18 \$268,715.87 \$340,051.05 N. W. Va. .. 3,890.22 9,725.75 13,615.97 Wash. Br. .. 32,909.95 11,044.28 43,954.23 Totals. \$108,135.35 \$289,485.90 \$397,621.25 The revenue of the past month, as compared with the same period last year, is as follows: Main Stem. N.W. Virg'a. September, 1858...\$340,051 05 Do. 1857... 402,231 11 \$13,615 97 .... .... Decrease .... \$62,180 07 Wash.Br'ch. Total. September, 1858....\$43,954 23 Do. 1857.... 43,098 50 \$397,621 35 455,329 62 Increase ..... \$855 73 Decr. \$57,708 27 The above table shows a decrease on the Main Stem of \$62,180 07, from which is to be deducted \$13,615 97 received on the Northwestern Virginia Branch, which leaves a decrease of \$48,564 10. There is an increase of \$855 72 on the Washington Branch, making a total decrease of the road, as compared with September of last year, of \$47,-The earnings of the Chicago, Burlington and Quincy Railroad in September, between Chicago and Burlington, a distance of 210 miles, were :-Freight ..... \$94,511 86 
 Passengers
 42,087
 99

 Mails and miscellaneous
 2,150
 83
 Total.....\$138,750 68 The earnings of the Quincy and Chicago (late Northern Cross) Railroad, extending from its junction with the Chicago, Burlington and Quincy Railroad at Galesburg to Quincy, a distance of 100 miles, were :-Freight .....\$13,539 14 
 Passengers
 9,836 90

 Mail and miscellaneous
 933 33
 Total .... \$24,309 37 The first week in October on the Illinois Central shows \$46,930. The land sales were \$15,363, and

9 73

8 80

36 14

52 67

)8 95

61 62

34 99

10 40

25 39

7,000

5,500

7,000

2,500

82 11

04 36

58 33

37 44

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Island

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Rail-

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7 and

15,352 16,435

31,837

.. \$477

Morris

757 92

of Sep-

### WATER WORKS.

the receipts for lands previously sold \$32,300.

THE undersigned, many years Engineer of the Water Power
Works at Fairmount, as well as of the several Steam
Works supplying the City of Philadelphia with water, may be
consulted upon the location, complete design, construction,
and management of water-works of all kinds for the supply of
cities, towns, etc., etc. Address
FREDERIC GRAFF.
Consulting Engineer, 187 Arch street,
3m42
PHILADELPHIA.

2,000 TONS of Eric Pattern, Orawshays make, on sale. Apply to
JAMES TINKER,
3m40

Kaliroad From.

JAMES TINKER,
54 Exchange Place. Railroad Iron.

OFFICE OF THE ILLINOIS CRETEAL R. R. Co., {
New York, October 2, 1858.

A FURTHER INSTALMENT OF THIRTY-FIVE PER
CENT. on the outstanding of ligations of this Company,
now over-due, will be paid on demand at No. 50 Wallst.
J. N. PERKINS.

### RAILROAD SLEEPERS

THE

NEW BRUNSWICK & CANADA RAILWAY AND LAND COMPANY

HAVING received a Grant of wilderness land from the Crown, extending 5 miles in width on each side of their Line—65 miles of which are now open for traffic,—are enabled, from the peculiar advantages they possess, to supply

### MOST SUPERIOR CEDAR AND HACMATAC RAILWAY TIES

at a very considerable reduction on the usual cost. For particulars as to sizes, prices, etc., application may be made to

Messrs WILLIAMS & PAGE,
44 Water et., Boston, Mass.
Messrs. A. BRIDGES & CO.,
64 Courtlandt st., New York,

Or at the office of the Company, Sr. Andrews, N. Brunswick
JULIUS THOMPSON,

3m39

MORRIS & JONES & CO., IRON MERCHANTS, MARKET AND SIXTEENTH STREETS,

PHILADELPHIA. IRON AND STEEL

IN ALL THEIR VARIETIES.

BOILER PLATE,
BOILER RIVETS,
CUT NAILS and SPIKES,
PIG IRON, etc.

Having the selling agency of a number of the Rolling Mills. Furnaces and Forges in this State, orders for any description of fron can be executed.

August 16, 1854.

### ST. LOUIS CAR WORKS.



### S. B. LOWE & CO., PALM AND SECOND STREETS, ST. LOUIS, MO.

G. M. TRACY & CO., STOCKS, BONDS, ETC. LOANS NEGOTIATED.

No. 49 EXCHANGE PLACE,
NEW YORK.

### CHAS. A. FISHER,

Late of the firm of FISHER, DENRY & CO.,
No. 18 Exchange Place.

STOCKS and Bonds bought and sold on commission. Long negotiated.

PETERS, CAMPBELL & CO., BANKERS AND DEALERS IN DOMESTIC EXCHANGE AND BANK NOTES. No. 50 WALL STREET, NEW YORK.

SPECIAL ATTENTION GIVEN TO

### COLLECTIONS

IN ALL PARTS OF THE UNITED STATES. PETERS, SPENCE & CO., Lynchburg, Va. D. T. C. PETERS, N. H. CAMPBELL, DAVID E. SPENCE, DEXTER OTEY.

Jas. T. Souten, Esq., Pres't B'k Republic, & New York City
American Exchange Bank,
Banks and Bankers, Richmond and Lynchburg, Va.

# KETCHAM & WILLIAMS,

No. 1. HANOVER STREET, Vall, NEW YORK Near Wall, Stocks and Bonds bought and sold on Commission, and Loans negotiated. 6m9

## DUNCAN, SHERMAN & CO.,

BANKERS, Corner Pine and Nassau Sts., NEW YORK,

CIRCULAR NOTES AND LETTERS OF CREDIT. For travelers, available in all the principal cities of the world.

ALSO, MERCANTILE CREDITS,

For use in EUROPE, CHINA, etc.

SIMEON DRAPER, Auctioneer.

By SIMEON DRAPER, OTFICE, No. 36 PINE ST., NEW YORK. REGULAR AUCTION SALES AT THE MERCHANTS' EXCHANGE EVERY DAY.

STOCKS and BONDS bought and sold at private sale. Sale every day at 12,4 o'clock. See Catalogue.

H MEIGS, Jr. & SMITH,

BANKERS and BROKERS,

39 WILLIAM STREET,

(FIRST BUILDING BELOW WALL STREET,)

STOCKS and BONDS Bought and Sold on Commission.

THE undersigned offer for sale the following valuable property in the cuty of Alexandra, Vinginia.

An IRON FOUNDRY, with steam power, cupolas, cranes, flacks, and all the flatures requisite for a first class business, also an extensive assortment of pattern for Railcoad Mashinery, Mill Gearing, Steam Engines, etc., etc.

The foundry building is of brick, fire-proof, well-lighted and has a clear floor 100 to 260 ft. Also, the square of ground on which the above is located, fronting on the Orange & Alexandra and containing about \$4,600 square ft. of ground.

The position is a very Lavorable one for the transaction of an extens we foundry building is of brick, fire-proof, well-lighted and an extens we foundry business and well worty the attention of parties disposed to engage in that business.

Also for sale or lease their extensive LOCOMOTIVE, CAR BUILDING AND MACHINE WORKS: a Alexa fru, stunted on the River Proomanc, comprising fields.

The location is considered a most desirable one, being immachine business of any kind.

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The location is considered as most desirable one, being immachine business of any kind.

The location is considered as most desirable one, being immachine business of any kind.

The location is considered on the River one bear and received by them, hereby invite engineer and contractors to submit a line of roads terminating at New Orieans, which diverging lines from the South and South west.

The subscribers will reliable the subscribers will reliable the subscribers will re

### RADLEY & HUNTER'S IMPROVED SPARK ARRESTER RAILROAD IRON MILL COMPANY,



PADLEY & HUNTER'S celebrated new invention is now offered to the public as a Perfect Spark Arrester, which possesses the advantage over all others of being of the most simple construction, and much more durable than any ever used. The manufacturer invites an examination of this Arrester by the railroad public, confident that it will meet with universal approparion.

approbation.

The undersigned hereby gives public notice that he is the sole masufacturer of the above article under the Radley & Hunter Patent, of whom alone they can be purchased in the United States.

DIMOR SE DUADE SE, New York

### RAILROAD IRON

EQUIPMENTS. T.A. HOWLAND & CO.

54 WILLIAM ST.,

HAVING the advantage of the most favorable arrangements with both Foreign and American Manufacturers are prepared to supply Railroad Companies with IRON and ROLLING STOCK on the most favorable terms, and also to Negotiate their Securities.

THE ROUGH AND READY

ROLLING MILLS
OF DANVILLE, PA.,
ARE prepared to fill orders for RAILS of the best quality
at the market price.
T. A. HOWLAND & CO., Agents,
54 William st., NEW YORK.

RAILROAD IRON. THE RENSSELAER IRON COMPANY, TROY, N. Y.,

OFFER Rails of their own manufacture deliverable as may be desired by purchasers.

OLD RAILS received in exchange for new, or for re-manufacturing.

JOHN A. GRISWOLD, Agent,

TROY, N. Y.

New York Agency:
BUSSING, CROCKER & DODGE,
32 CHE St.

### IRON BOILER FLUES.

Lap-Welded Boiler Flues,

11/2 to 7 inches outside diameter, cut to definite length, 2 to 20 feet as required.

Wrought Iron Welded Tubes,

From 1/6 to 5 inches bore, with Screw and Socket Connections. T's, L's, Stops, Valves, Flanges, &c., &c.

MANUFACTURED AND FOR SALE BY MORRIS, TASKER & CO.,

PASCAL IRON WORKS.

Established 1821. Warehouse-209 South Third st. PHILADELPHIA.

THOS, T. TASKER, JR.

CHAS, WHERLER, JE STEPBEN P. M. TASKER.

THE ROUND OAK IRON WORKS, STAFFORDSHIRE, ENGLAND.

MANUFACTURE RAILS, BOILER PLATES, F pattern, HOOPS and BARS, of every variety

NORRIS & BROTHER,
Agents for the United States,
12 South Challes Stanet,
BALTIMORE,

THE

CLEVELAND, OHIO,

MANUFACTURERS EXCLUSIVELY OF

#### RAILROAD IRON.

THIS is a new ROLLING MILL, having been working only sighteen months, and confined to work for roads on this line between Buffalo and Chicago in re-rolling old Rails. The capacity is Forty Tons por day. It is well situated for receiving old Rails, either by Railroad or Lake.

Orders are now solicited

From Roads in other sections of the country; and work will be made with New Iron in the heads, if desired. Apply to

ALBERT G. SMITH,

President of the Incorporation.

February, 1858.

### RAILROAD IRON.

The Crescent Manufacturing Company. WHEELING, VA.,

A RE now prepared to execute, at short notice, orders for Rails of any required pattern and weight, and to re-roll old rais, on the most liberal terms Address N. WILKINSON, Sec'y, Stf WHEBLIEG, VA.

### RAILROAD IRON.

CONTRACTS FOR RAILS, DELIVERED AT AN ENGLISH PORT, Or at a Port in United States,

WILL BE MADE BY THE UNDERSIGNED,
THEODORE DEHON,
10 Wail st., near Broadway, New York.
300 tons T rails on hand 64 to 57 lbs. per linear yard.

### RAILROAD IRON.

The undersigned, Agents for leading Manufacturers in STAFFORDSHIRE AND WALES. ARE PREPARED TO CONTRACT FOR DELIVERY On board ship at Liverpool, or Welsh port, C. CONGREVE & SON,

18 Cliff st., N. Y.

### RAILROAD IRON.

The Undersigned, Agents for the Manufacturers, ARE PREPARED TO CONTRACT TO DELIVER Free on Board at Shipping Ports in England, or At Ports of Discharge in the United States,
RAILS OF SUPERIOR QUALITY,
And of Weight or Pattern as may be required.
VOSE, LIVINGSTON & CO.,

New York. Aug. 1, 1855. 9 South William Street

RAILROAD IRON. The Subscribers, Agents for the Manufacturers, ARE PREPARED TO CONTRACT FOR THE DELIVERY OF RAILROAD IRON AT ANY PORT

in the United States or Canada, or at a shipping port in Wales. WAINWRIGHT & TAPPAN,

29 Central Wharf. Boston, June, 1851.

# RAILROAD IRON A COMMON BARS.

Sole Agents to Messrs. GUEST & CO., The Proprietors of the Dowlais Iron Works,

Near Cardiff, South Wa'es, A RE duly authorized to contract for the sale of their G. L. Railroad Iren, and Common Bars, on most advantageous

R. & J. MAXIN, 70 Broad st.

### RAILROAD IRON AT ELMIRA, N. Y.

THE subscribers have American Railroad Iron for sale as above; also Weish Iron in New York and other markets.

FABER, PERKINS & CO.,

New York, August 10th.

### RAHAROAD IRON. WOOD, MORRELL & CO.,

Having leased the extensive Works of the

### Cambria Iron Company,

Situated at Johnstown, Cambria Co., Penna.,

And purchased all their real estate, E now prepared to execute, at short notice, orders for RAILS of any required pattern or weight, on the most

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Philadelphia Office, North Penna R. P. Bullding,

### STEEL, FILES, &c. R. GROVES & SONS SHEFFIELD, ENGLAND,

MANUFACTURERS of warranted Cast Steel, superior quality, for Tools, Machinery, and Engineering purposes. Single and Double Shear, Blister, German Spring and Sheet Steel of every description—also, Cast Steel Files of high reputation, especially adapted for the use of Machinists, and Saws and Edge Tools of all kinds.

A stock of the above goods constantly on hand.

CORPORATE MARK ATTA USE

CHAS. CONGREVE & SON, Agents, 13 Chiff street, N. Y.

### RAILROAD IRON.

W ELSH or Staffordshire make, delivered on board at an English port or at a port in the United States.

NORRIS & BROTHER,

### REMOVAL.

D. STARLING. Metal Broker and Rail Inspector, from Lawrence Pountney Lane, to the Vestry House, Lawrence, Pountney Hill. LONDON, 1857.

Railroad Iron.

700 TONS, afloat, or in stere, of "W Crawshay's' make. For sale by THEODORE DEHON,

10 Wall st., near Inoadway. New York.

### Railroad Iron.

1,000 TONS Railroad Iron, weighing about 58 lbs. per yard, "Erie" rattern. of best quality Weish make, now ready for delivery, for sale by VOSE, LIVINGSTON & CO., August 1st, 1857.

TUBULAR RAIL.



PER YARD 501%

Railroad Managers will be interested by an examination of the "TUBU-LAR RAIL," patented in Europe and America by Stephens & Jes-Kirs, Covington, Ky. These rails have decided advantages over any rail hitherto made, among them the fol-lowing:—

Inwing:— Lowing:— The "Tubular Rail" of 50 lbs. per yard has greater strength and elasticity, with the same outside surface as solid rails of 60 lbs. per yard.

Its density is greater,
Its welding nearer perfect, and
Its durability superior.
Unlike other new forms of rail, it can be put down on the
grace chairs, and with the same fastenings, used with common

2 rails.

2 rails.

The arrangements to manufacture are such that these rails can be furnished of any American or Foreign make.

Reference is made to the officers of all the railroads in the vicinity of Cincinnati.

Additional particulars and circulars may be had by addressing

E. W. STEPHENS,

Cincinnati, Ohio.

### AMERICAN COAL CO.

GEORGE'S CREEK SEMI-BITUMINOUS COAL.

THIS Company is prepared to contract for the sale of their coal, delivered on board vessels at the depots at Baltimore, Georgetown and Alexandris, on the most favorable terms. The coal is from the George's Creek basin, entirely free from slate, and for steamers, locomotives and foundries is unsurpassed and unequalled in quality by any coal brought to this market, except that coming from the same basin.

The Company will procure vessels at the lowest rates, when desired, without charge.

Orders for quantities less than a cargo, will be filled at the yard of Ramball & Morrall, Jersey City, adjoining to Cumard Wharf.

F.W. Rhinelander, James A. Boorman, Edwin A. Post, RHINELANDER, BOORMAN & CO., RAILWAY AGENTS

COMMISSION MERCHANTS, SUPPLY ALL MATERIAL AND ARTICLES USED IN THE CONSTRUCTION AND OPERATING OF RAILWAYS. BANK OF COMMERCE BUILDING, NEW YORK.

John A. Stevens, Esq., President Bank of Commerce.
Sam'l Sloan, Esq., President Hudson River Railroad Co.,
James Boorman, Esq., Messra, Stillman, Allen & Co.
Messra, Cooper & Hewitt, Messra, Duncan, Sherman & Co.

### RAILROAD SUPPLIES. WILLIAMS & PAGE.

No. 44 Water, between Congress and Kilby Streets, Boston, Mass.

Iron Rails, Chairs, & Spikes, FREIGHT AND COAL CARS,

(on hand or made at short notice.)

Wheels and Axles of all kinds. LOWMOOR, AMES', BOWLING, AND NASHUA TIRES,

IRON AND STEEL,
of all kinds for Shops and Tracks.

Car Trimmings, Paints, Oil, Varnish, Car and Switch Locks, Ventilators, Lanterns, Head-Lights, Gauges, Rubber Springs, Chairs, Hose and Belting, Ash, Pine and other Tim-ber, and ALL MATERIALS USED in Equipment and Repairs of Railroads, Engines and Cars, at lowest prices.

THOS. S. WILLIAMS, PH.
Late Sup't Boston & Me. R. R. Late 1
REFERENCES. PHILIP S. PAGE, Late PAGE, ALDEN & Co.

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JAMES HAYWARD, President PHELPS, DODGE & Co., N.Y. Boston and Maine R. R. Cooper, Hewitt & Co., do. Capt. Wm. H. Swift. Boston. REEFVES, BUOK & Co., Phila, Ston. E. S. Chessbrough, Chicago, Phila, W. & B. R. R.

### A. S. & A. G. WHITON 72 PINE ST., NEW YORK,

DEALERS IN

RAILROAD IRON CHAIRS AND SPIKES, LOCOMOTIVES

PASSENGER AND FREIGHT CARS.

MANUFACTURERS' AGENTS

FOR Seller's Iron Turn Tables, Dimpfel's Patent Blower, Gardiner's Volute Car Springs and

RAILWAY SUPPLIES GENERALLY.

NEGOTIATORS OF SECURITIES.

### OLD STAND. RAILROAD AND CAR FINDINGS. A. BRIDGES & CO.,

SUCCESSORS TO BRIDGES & BRO.,

WILL continue the Railroad and Car Furnishing business, and deal in Locomotive and Hand Lanterns, Enamelled Real Linings, Brass and Silver Trimmings, Cotton Duck for Car Covers, Portable Forges and Jack Screws, Bolts, Nuts and Washers, Ship and Bridge Bolts, and Iron Forgings of almost svery description, etc., etc., etc., at the old Stand, Cotton Country, New York.

Orders for the purchase of goods on commission, aside from our regular business, respectfully solicited.

ALBERT BRIDGES, Of the late firm of Bandes & Bro. JOEL C. LANE.

SAWYER, TINKER & CO.,

## COTTON DUCK,

For Car Roofing, of all widths, up to 140 in.
PATENT COTTON BELTING, cost about one-third of Leather. Office, 36 BEEKMAN ST., NEW YORK.

### S. B. BOWLES, MANUFACTURER AND DEALER IN

# RAILROAD

No. 12 GOLD STREET, etween PLATT and MAIDEN LANE, NEW YORK

GEO. M. FREEMAN.

SUCCESSOR TO

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PHILADELPHIA RAILWAY SUPPLY AGENCY. No. 123 WALNUT STREET, PHILADELPHIA.

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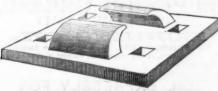
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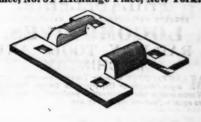
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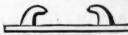
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